ORDER NO. MD8907044A4

Service Manual

Radio Cassette

RX-CT950

Portable Stereo Component System

- Please file and use this Service Manual together with the service manual for Model No. RX-CT950 Order No. MD8904018C1.
- This Service Manual indicates the main differences between; Original RX-CT950 [for (PP) mark area] and RX-CT950 (PX).

Color

(K) ..... Black Type

Area

Country Code	Area	Color
(PX)	Far East-PX/ Europe PX	(K)

CHANGES

■ SPECIFICATIONS

RX-CT950 (PP) (Original)

General:
Power Requirement: AC; 120 V, 60 Hz
Power Consumption: 45 W (AC only)
Power Output: 22 W (11 W×2)...RMS (max)
Jacks: Input; MIXING MIC; 5 mV (200~600Ω)

Radio Section:
Frequency Range: AM; 520~1710 kHz
Sensitivity: FM; 2 μV/50 mW output (−3 dB Limit Sens.)
AM; 80 μV/m/50 mW output

RX-CT950 (PX)

General:
Power Requirement: **AC; 110~127/200~220/230~250 V, 50/60 Hz**
Power Consumption: **70 W** (AC only)
Power Output: **22 W (11 W×2)...MAX (CPO)**
60 W (30 W×2)...PMPO
Jacks: Input; **3.16 mV (200~600Ω)**

Radio Section:
Frequency Range: **AM; 522~1611 kHz (at 9 kHz step)**
520~1710 kHz (at 10 kHz step)
Sensitivity: **FM; 2 μV (S/N: 30 dB)**
AM; 178 μV/m (S/N: 20 dB)

■ PARTS COMPARISON TABLE

Notes: 1. Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
2. Ⓜ Indicates parts that are supplied by MESA.

Ref. No.	Description		Part Number		Remarks
	RX-CT950(PP) (Original)	**RX-CT950(PX)**	RX-CT950(PP) (Original)	**RX-CT950(PX)**	
SWITCHES					
S9	SW,DECK1 PLAY	**SW, VOLTAGE SELECT**	RFA93ZA	**RSR3A01ZA-H**	
S10	SW, DECK1 MOTOR	**SW, AM FREQ. STEP**	RFA92ZA	**RSS2A56ZA-H**	
S15	—	**SW, DECK1 PLAY**	—	**RFA93ZA**	
S16	—	**SW, DECK1 MOTOR**	—	**RFA92ZA**	

Ref. No.	Description	Part Number		Remarks
		RX-CT950 (PP) (Original)	**RX-CT950 (PX)**	
FUSE				
F301 ⚠	FUSE	XBA1C40NU100	**XBA2C40TB0X**	

Panasonic

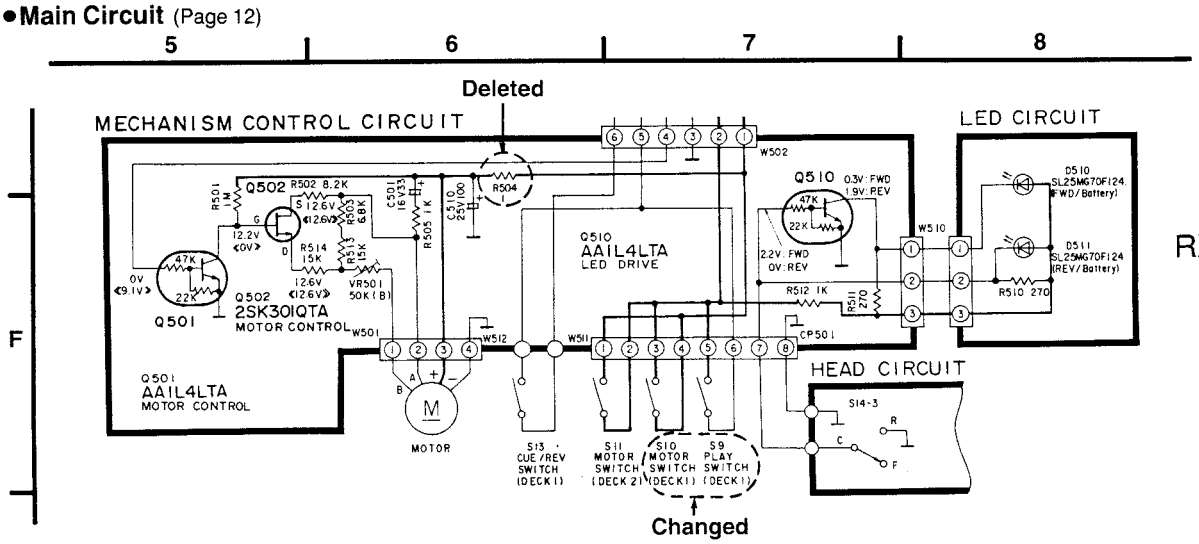
Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

Panasonic Tokyo Sales Department
Matsushita Electric Industrial Co., Ltd.
World Trade Center Bldg., 4-1, Hamamatsu-cho, 2-chome, Minato-ku, Tokyo 105, Japan

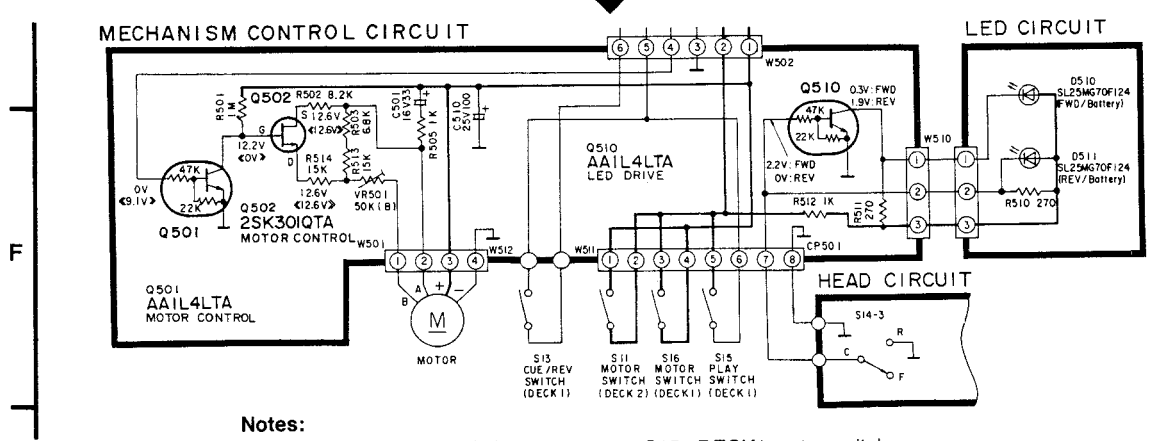
Ref. No.	Description	Part Number		Remarks
		RX-CT950 (PP) (Original)	**RX-CT950 (PX)**	
TRANSFORMER				
T301 ⚠	POWER TRANSFORMER	RLT5L5C4B-X	**RLT5M5G1A-X**	
JACK				
J306	JACK, DC IN	———	**RJJB3ZD-C**	Added
RESISTOR				
R378	RESISTOR (1Ω, ¼ W)	———	**ERDS2TJ1R0**	Added
R504	RESISTOR (1Ω, ¼ W)	ERDS2TJ1R0	———	Deleted
CAPACITOR				
C354	CAPACITOR (4700 μF, 35 V)	ECEA1EU472	**ECEA1VU472**	
CABINET AND CHASSIS				
2	SHIELD PLATE	RYEXCT900P	**RMC1250ZA**	
19	REAR CABINET ASS'Y	RYFXCT950PP	**RYFXCT950PX**	
47	P.C.B	RUP2542WAC	**RUP2542UAC**	
ACCESSORIES				
A1 ⚠	POWER CORD	RJA95Z	**RJA21ZC-K**	

SCHEMATIC DIAGRAM

●**Main Circuit** (Page 12)



RX-CT950 (PP) (Original)



RX-CT950 (PX)

Notes:

S11: DECK2 motor switch.
S13: DECK1 CUE/REV switch.
S15: DECK1 motor switch.
S16: DECK1 play switch.

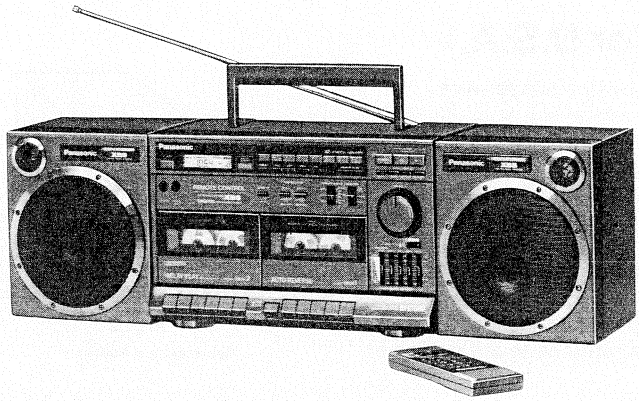
ORDER NO. MD8904018C1
A1

Service Manual

Radio Cassette

RX-CT950

Portable Stereo Component System



Color

(K)	Black Type

Area

Country Code	Areas	Color
(PP)	U.S.A., Canada	(K)

RX-FW29 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement: AC; 120 V, 60 Hz
Battery; 15 V (10 UM-1 "D" Size Batteries)
Memory Back-up Battery for Computer/ Clock; 6 V
(4 UM-3, "AA" size batteries)
For Remote Control; 3 V (2 UM-3 "AA" size batteries)

Power Consumption: 45 W (AC ONLY)

Power Output: 22 W (11 W×2)...RMS (max.)

Speaker: Woofer; 6¼" (16 cm) PM Dynamic Speaker (2.7Ω)
Tweeter; ¾" (2 cm) Ceramic Speaker

Jacks:
Input; CD/AUX IN; 316 mV, 50 kΩ
MIXING MIC; 5 mV (200~600Ω)
Output; EXT. SP; 2.7~8Ω
HEADPHONES; 32Ω, Ø3.5

Dimensions: 27 9/16" (W)×8 9/16" (H)×7 11/16" (D)
(700×218×196 mm)
Main Unit;
13¾" (W)×8 9/16" (H)×7 11/16" (D)
(349×218×196 mm)
Speaker Box;
7 5/16" (W)×8 9/16" (H)×7 3/16" (D)
(185×218×183 mm)
Remote Control;
2 9/16" (W)×6 1/16" (H)×1 1/16" (D)
(65×154×18 mm)

Weight: 14 lbs 9 oz (6.6 kg) without batteries
Remote Control; 26 oz (73 g) without batteries

Radio Section:

Frequency Range: FM; 87.5~108 MHz
AM; 520~1710 kHz

Intermediate Frequency: FM; 10.7 MHz
AM; 450 kHz

Sensitivity: FM; 2 μV/50 mW output (−3 dB Limit Sens.)
AM; 178 μV/m/50 mW output

Tape Deck Section: **TAPE 1**

Frequency Range: Normal; 40~12000 Hz
CrO_2; 40~13000 Hz

Tape Speed: 1 7/8 ips (4.8 cm/s)

Track System: 4-track 2-channel stereo playback

Tape Deck Section: **TAPE 2**

Frequency Response: Normal; 40~12000 Hz
CrO_2; 40~13000 Hz

Recording System: AC bias, AC erase

Tape Speed: 1 7/8 ips (4.8 cm/s)

Track System: 4-track 2-channel stereo recording and playback

Weights and dimensions shown are approximate.
Design and specifications are subject to change without notice.

Panasonic®

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Hawaii, Inc.
99-859, Iwaiwa Street
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc.
San Gabriel Industrial Park
65th Infantry Ave. Km.9.5
Carolina, P.R. 00630

SAFETY PRECAUTIONS (For U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, sheilds, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

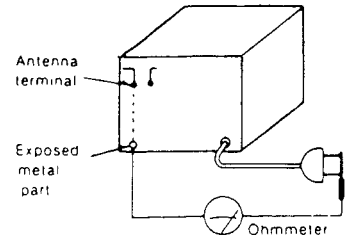


Fig. 1

Resistance = 3MΩ – 5.2MΩ

INSULATION RESISTANCE TEST (For U.S.A.)

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts*. (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)
   * **Note:** Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

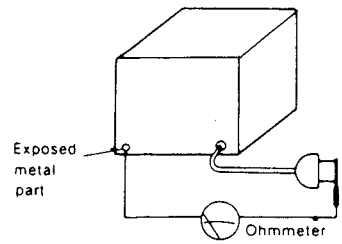
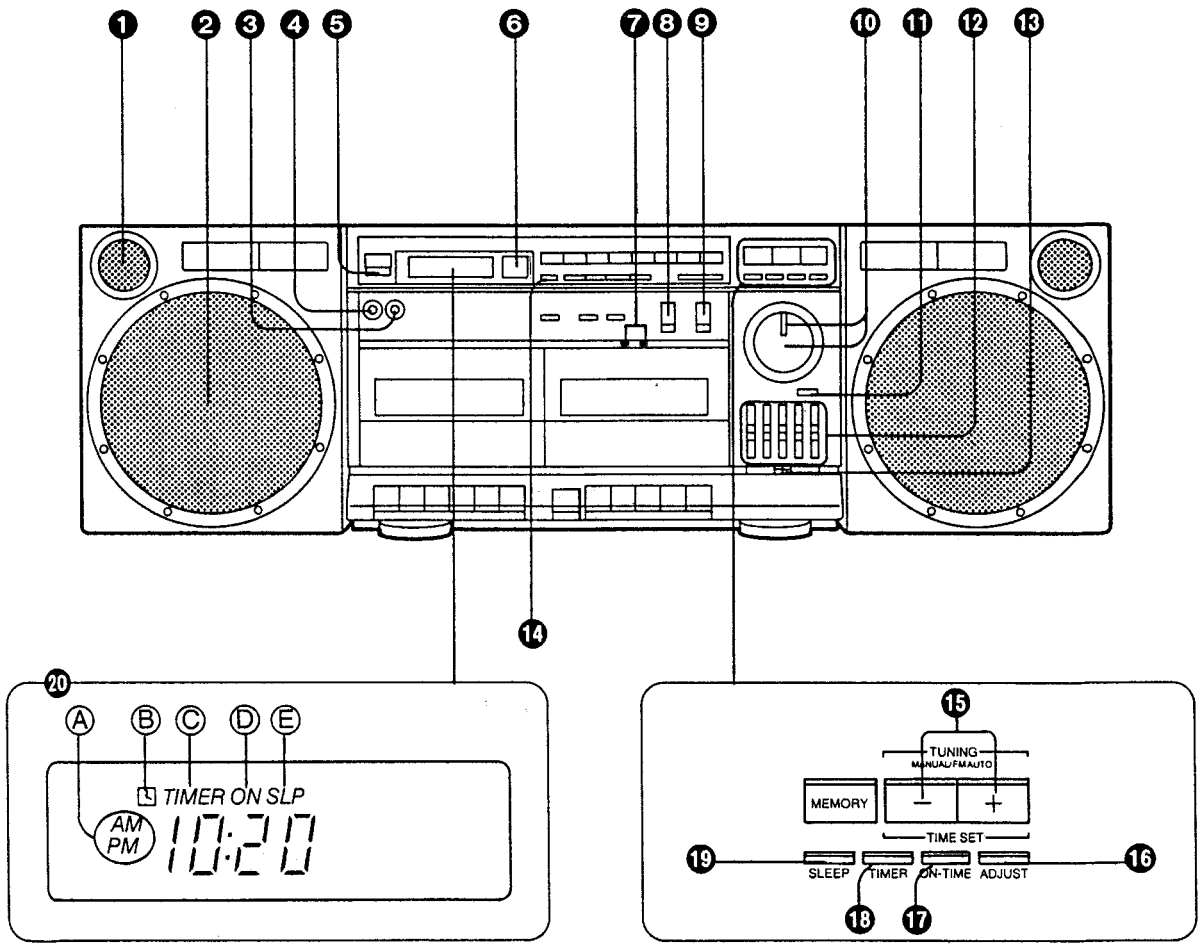


Fig. 2

Resistance = Approx ∞

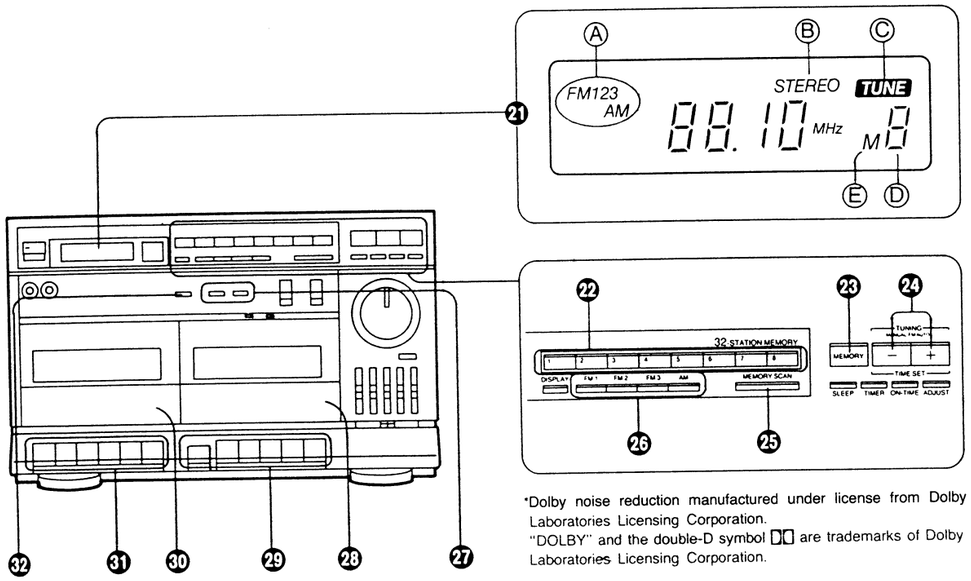
LOCATION OF CONTROLS



BATTERY SERVICE LIFE

UM-1 (D-size) Batteries
Approx. 10 hours of recording (EIAJ)
Approx. 4.3 hours of playback (EIAJ) with volume set at ¾ position

The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan.) As the battery service life varies with the method of operation and environmental conditions, use these values as reference.



*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

GENERAL/TIMER CONTROLS

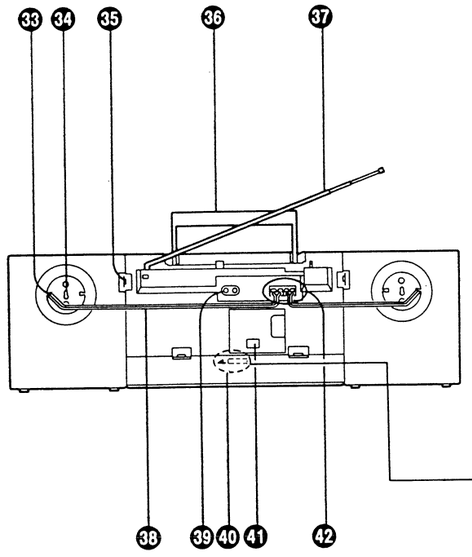
❶ Speakers [Tweeters]
❷ Speakers [Woofers]
❸ Mixing Microphone Jack [MIXING MIC (5 mV, 200~600Ω)]
❹ Headphones Jack [PHONES (32Ω • ∅3.5)]
❺ Power Switch (POWER)
❻ Remote Control Sensor (REMOTE SENSOR)
❼ Power/Battery Check/Direction Indicators (PWR/BATT/DIRECTION)
❽ Editing Selector/FM Mode Selector/Beat Proof Switch (EDITING/FM MODE/B.P)
❾ Function Selector (SELECTOR)
❿ Volume Control and Volume Indicator (VOLUME)
⓫ XBS Switch (XBS)
⓬ Graphic Equalizer (GRAPHIC EQUALIZER)
⓭ Balance Control (BALANCE)
⓮ Display Mode Selector (DISPLAY)
⓯ Time Set Buttons (TIME SET)
⓰ Adjust Button (ADJUST)
⓱ On-Time Button (ON-TIME)
⓲ Timer Button (TIMER)
⓳ Sleep Button (SLEEP)
⓴ Clock/Timer Display
  Ⓐ AM-PM Indicators
  Ⓑ Timer Display Indicator (◳)
  Ⓒ Timer Indicator (TIMER)
  Ⓓ Timer On Indicator (TIMER ON)
  Ⓔ Sleep Indicator (SLP)

DECK CONTROLS

㉗ Tape Selectors (TAPE SELECTOR)
㉘ Deck 1 Cassette Compartment
㉙ Deck 1 Tape Operation Buttons
  Reverse Mode Selector (REVERSE MODE)
  Playback Button (◀▶ PLAY)
  Fast/Cue Buttons (◀◀ • ▶▶ FAST/CUE)
  Stop/Eject Button (■/▲ STOP/EJECT)
  Direction Button (◀II▶ DIRECTION)
㉚ Deck 2 Cassette Compartment
㉛ Deck 2 Tape Operation Buttons
  Record Button (● RECORD)
  Playback Button (▶ PLAY)
  Rewind Button (◀◀ REW)
  Fast Forward Button (▶▶ FF)
  Stop/Eject Button (■/▲STOP/EJECT)
  Pause Button (II PAUSE)
㉜ *Dolby Noise Reduction Switch (DOLBY NR)

TUNER CONTROLS

⓴ Tuning Display
  Ⓐ Band Indicators (FM 1 2 3 AM)
  Ⓑ FM Stereo Indicator (STEREO)
  Ⓒ Tuning Indicator (TUNE)
  Ⓓ Preset Memory Indicator
  Ⓔ Memory Indicator (M)
㉒ Preset Memory Buttons
㉓ Memory Button (MEMORY)
㉔ Tuning Buttons (TUNING)
㉕ Memory Scan Button (MEMORY SCAN)
㉖ Band Selector (FM1, FM2, FM3, AM)



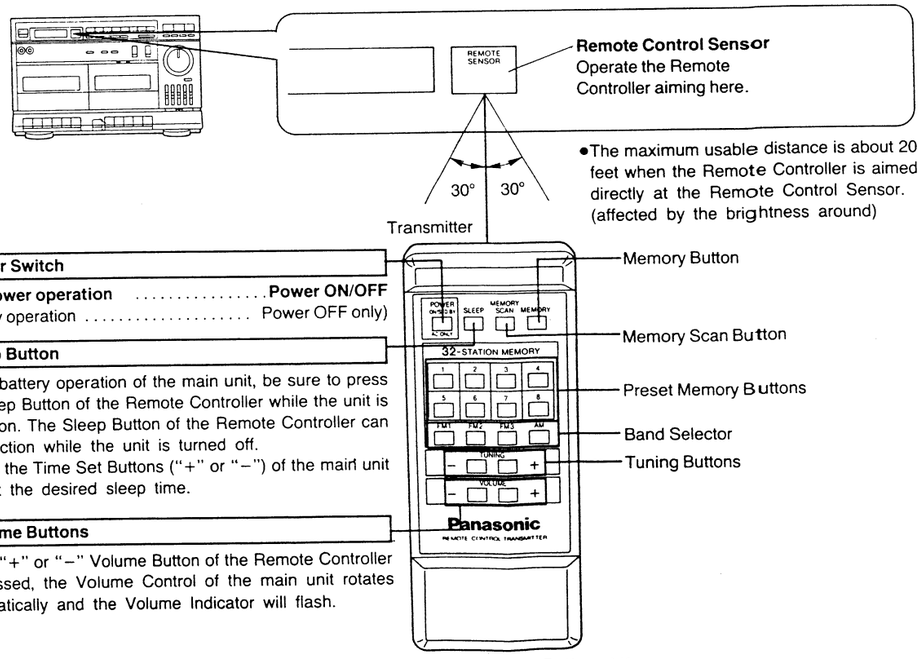
REAR PANEL

㉝ Speaker Cable Compartments
㉞ Speaker Wall Mounts
㉟ Speaker Release Levers (RELEASE)
㊱ Handle
㊲ Telescopic Antenna
㊳ Speaker Cables
㊴ CD/AUX Input Jacks [CD/AUX IN (316 mV, 50 kΩ)]
㊵ Battery Compartment
㊶ AC Socket (AC IN ∿)
㊷ Speaker Terminals [SPEAKER (IMP 2.7–8Ω)]

When the tape is caught in the pinch roller, etc. Release the tape by turning the pulley on the motor with the screwdriver in the direction of the arrow.

REMOTE CONTROL OPERATION

- The Remote Controller can operate the same modes of tuner controls of the main unit.
- The Remote Controller can turn the unit on and off only during AC power operation. During battery operation, it can turn the unit off only, and cannot turn it on.


REMOTE SENSOR
Remote Control Sensor
Operate the Remote Controller aiming here.
30°
30°
Transmitter
Power Switch
•AC power operation ..... Power ON/OFF
(Battery operation ..... Power OFF only)
Sleep Button
During battery operation of the main unit, be sure to press the Sleep Button of the Remote Controller while the unit is turned on. The Sleep Button of the Remote Controller can not function while the unit is turned off.
•Press the Time Set Buttons ("+" or "–") of the main unit to set the desired sleep time.
Volume Buttons
When "+" or "–" Volume Button of the Remote Controller is pressed, the Volume Control of the main unit rotates automatically and the Volume Indicator will flash.
POWER ON-OFF
SLEEP
MEMORY SCAN
MEMORY
32-STATION MEMORY
FM1
FM2
FM3
AM
TUNING
VOLUME
Panasonic
Memory Button
Memory Scan Button
Preset Memory Buttons
Band Selector
Tuning Buttons

•The maximum usable distance is about 20 feet when the Remote Controller is aimed directly at the Remote Control Sensor. (affected by the brightness around)

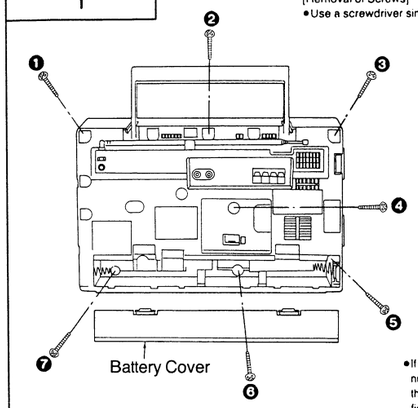
•Battery Life
Although the life of the batteries will vary depending upon the number of times that the Remote Controller is used, the average life based on the use of the batteries of the Remote Controller is about 1 year.

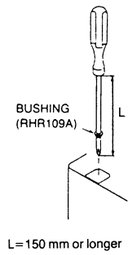
DISASSEMBLY INSTRUCTIONS

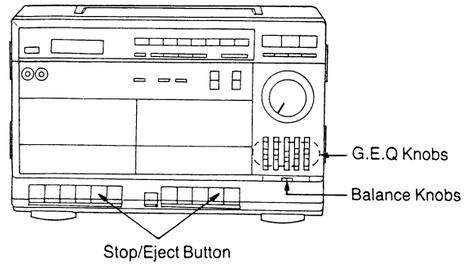
Ref. No. 1 — Removal of the Front Cabinet

Procedure 1

[Removal of Screws]
• Use a screwdriver similar to the one in the figure.







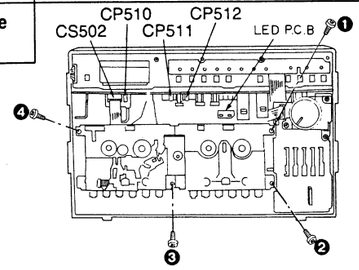
1. Remove the battery cover.
2. Remove 7 screws (❶~❼).

• If you attach a bushing (part number: RHR109A) to the tip of the screwdriver as shown in the figure, the screwdriver tip will easily fit in the screw heads and you will be able to remove the screws with ease.

3. Pull out the G.E.Q. knob and balance knob.
4. Press the stop/eject button and the open the cassette lid.

Ref. No. 2 — Removal of the Mechanism

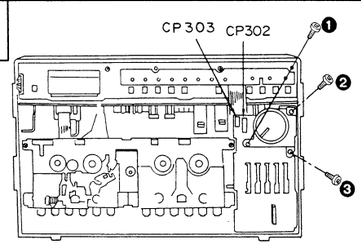
Procedure 1→2



1. Remove 4 screws (❶~❹).
2. Remove 4 connector (CP510, CP511, CP512, CS502).
3. Remove the L.E.D. P.C.B.

Ref. No. 3 — Removal of the Graphic Equalizer P.C.B.

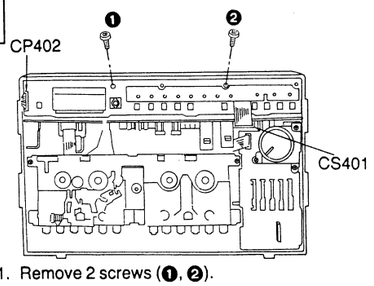
Procedure 1→3



1. Remove 3 screws (❶~❸).
2. Remove 2 connector (CP302, CP303).

Ref. No. 4 — Removal of the operation (Clock/Tuner) P.C.B.

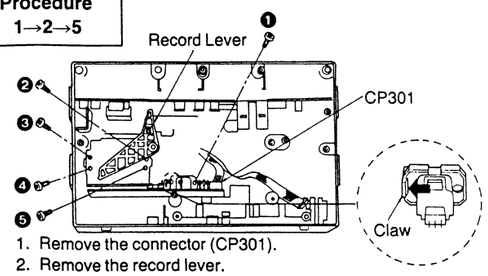
Procedure 1→4



1. Remove 2 screws (❶, ❷).
2. Remove the connector (CP402).

Ref. No. 5 — Removal of the Power P.C.B.

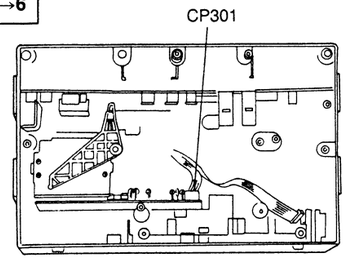
Procedure 1→2→5



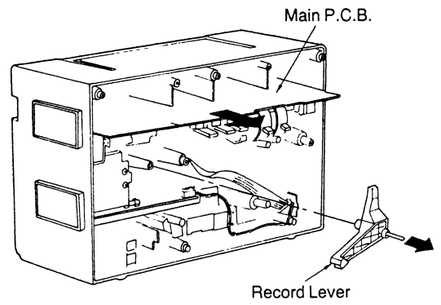
1. Remove the connector (CP301).
2. Remove the record lever.
3. Remove 5 screws (❶~❺).
4. Release the claws in the direction of arrow.

Ref. No. 6 — Removal of the Main P.C.B.

Procedure 1→2→3→4→6



1. Remove the connector (CP301).

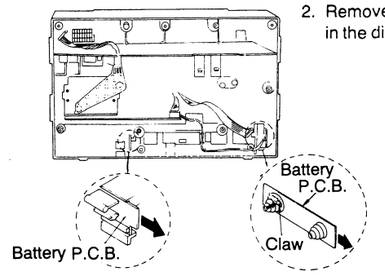


2. Remove the record lever.
3. Pull out the main P.C.B.

Ref. No. 7 — Removal of the Battery P.C.B.

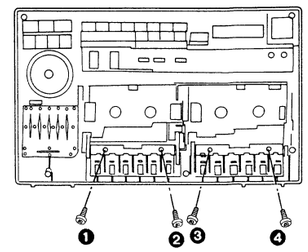
Procedure 1→2→3→7

1. Release the claw in the direction of arrow.
2. Remove the battery P.C.B. in the direction of arrow.



Ref. No. 8 — Removal of the Mechanism Button

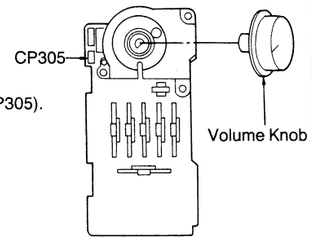
Procedure 1→8



• Remove 4 screws (❶~❹).

Ref. No. 9 — Removal of the Volume Knob

Procedure 1→3→9

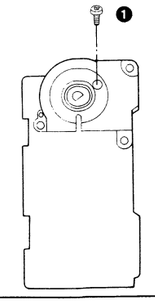


1. Remove the connector (CP305).
2. Pull out the volume knob.

Ref. No. 10 — Removal of the Volume Chassis

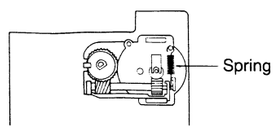
Procedure 1→3→9→10

• Remove the screw (❶).

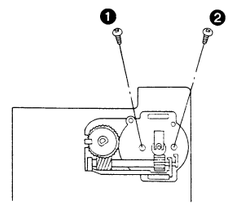


Ref. No. 11 — Removal of the Volume Gear Ass'y

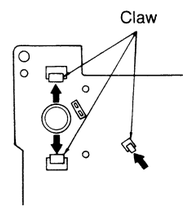
Procedure 1→3→9→10→11



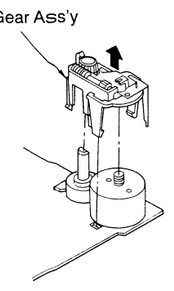
1. Remove the spring.



2. Remove 2 screws (❶, ❷).

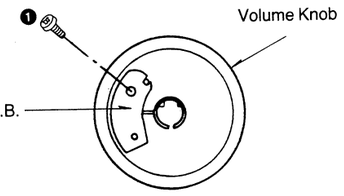


3. Release 3 claws in the direction of arrows.



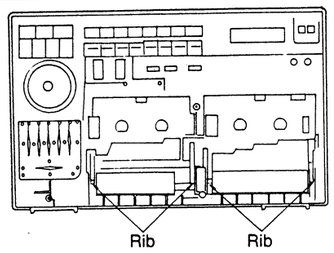
4. Remove the volume gear ass'y in the direction of arrow.

Ref. No. 12	Removal of the Volume Indicator P.C.B.
Procedure 1→3→9→10 →11→12	



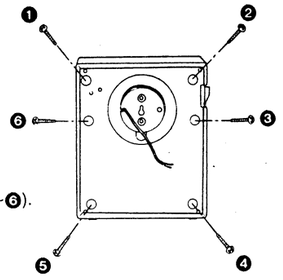
●Remove the screw (❶).

Ref. No. 13	Removal of the Cassette Holder
Procedure 1→13	



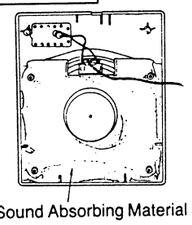
●Release 4 ribs in the direction of arrow.

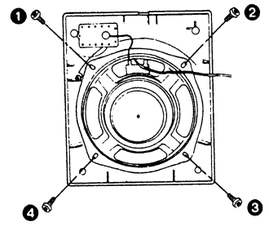
Ref. No. 14	Removal of the Speaker's Front Cabinet
Procedure 14	



●Remove 6 screws (❶~❻).

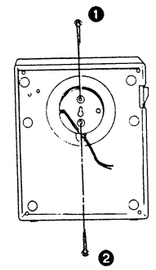
Ref. No. 15	Removal of the Speaker (Woofer)
Procedure 14→15	





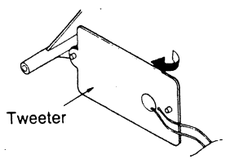
1. Remove the sound absorbing material.
2. Remove 4 screws (❶~❹).

Ref. No. 16	Removal of the Speaker Wall Mount
Procedure 16	



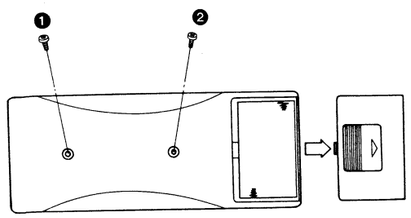
●Remove 2 screws (❶, ❷).

Ref. No. 17	Removal of the Speaker (Tweeter)
Procedure 14→17	

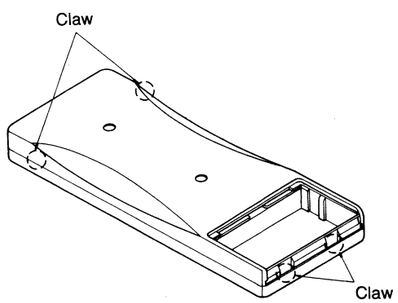


●Detach the tweeter in the direction of arrow.
Note: The tweeter has been attached to the cabinet with double-sided adhesive tape.

Ref. No. 18	Disassemble the Remote Control
Procedure 18	

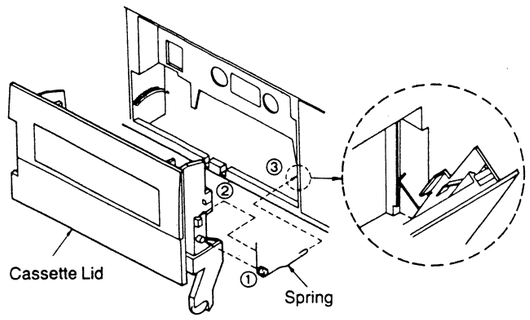


1. Remove the battery cover.
2. Remove 2 screws (❶, ❷).

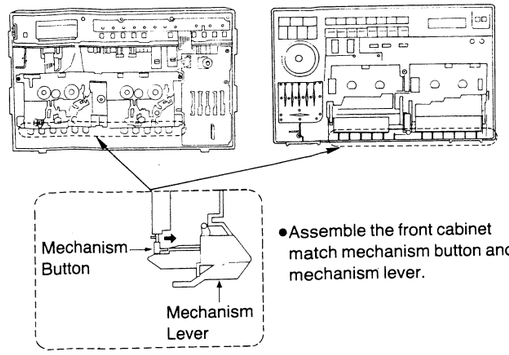


3. Release 4 claws.

■ CASSETTE LID ASSEMBLY

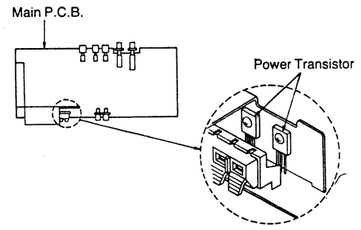


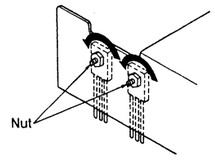
■ FRONT CABINET ASSEMBLY



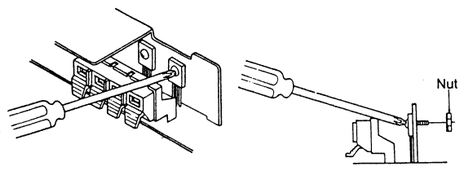
●Assemble the front cabinet match mechanism button and mechanism lever.

■ HOW TO REPLACE THE POWER TRANSISTOR

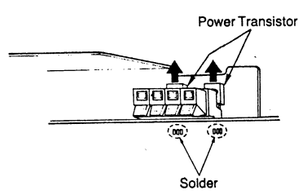




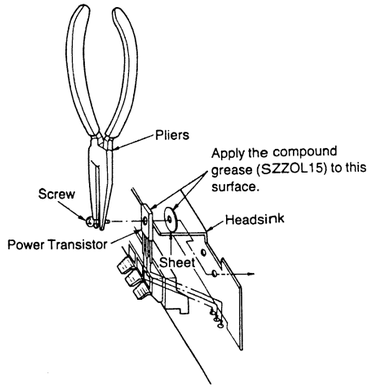
1. Remove the screws by turning the nuts in the direction of the arrow.



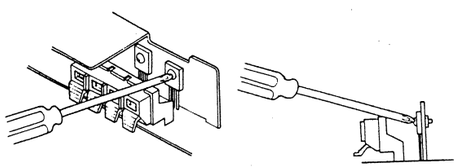
Note
If the nuts can not be easily removed while the screws are being turned, push the screw heads with the Phillips screwdriver (see figure) and keep them in this position, and then turn the nuts.



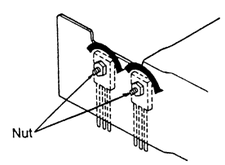
2. Remove the solders and then the Power Transistor in the direction of the arrow.



3. Apply the compound grease (SZZOL15) to the sheet and Power Transistor.
4. Hold the screws with the pliers as shown in the figure and then insert them in the holes in the Power Transistor, sheet and heatsink respectively.

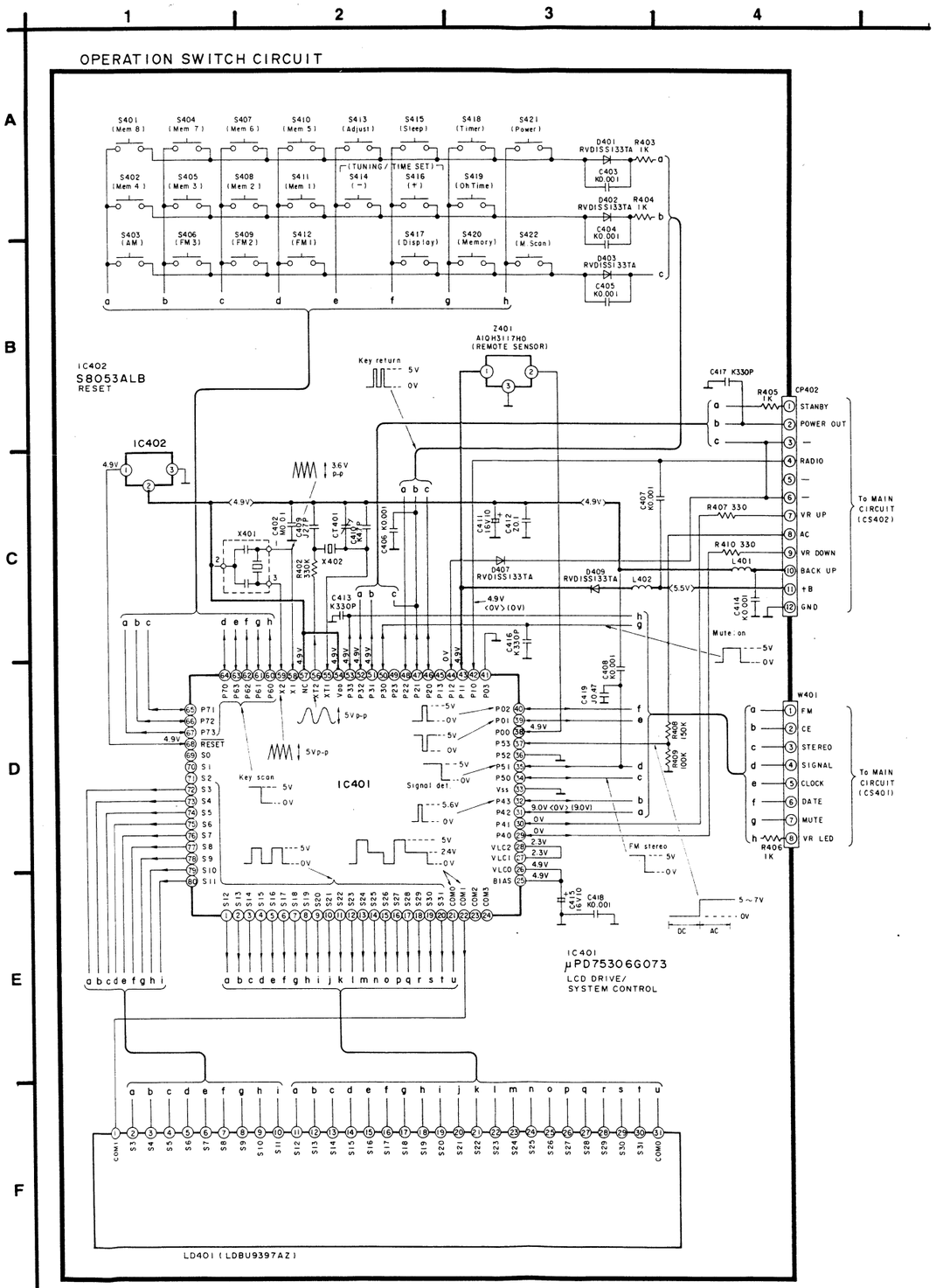


5. Attach the nuts and then secure the screws with the driver as shown in the figure.



6. Turn the nuts in the direction of the arrow.

SCHEMATIC DIAGRAM (for Operation Switch Circuit)



Notes:

1. S1-1~S1-7: Record/Playback switch in "PLAYBACK" position. (P...PLAYBACK, R...RECORD)
2. S2-1~S2-4: Function select switch in "TAPE" position. (T...TAPE, R...RADIO, A...CD/AUX)
3. S3: Editing/FM mode/Beat proof switch.
   S3-1; Editing mode switch in "MIC" position (M...MIC, N...NORMAL SPEED, H...HIGH SPEED)
   S3-2; FM mode/Beat proof switch in "STEREO/▮▮" position. (S/▮▮...STEREO/▮▮, M/▮...MONO/▮)
4. S4: Deck 1 tape select switch in "NORMAL" position. (N...NORMAL, Cr...METAL/CrO_2)
5. S5-1~S5-2: Deck 2 tape select switch in "NORMAL" position. (N...NORMAL, Cr...METAL/CrO_2)
6. S6: Dolby NR switch in "OFF" position.
7. S7-1, S7-2: XBS switch in "OFF" position.
8. S8: Mic switch.
9. S9: Deck 1 play switch.
10. S10: Deck 1 motor switch.
11. S11: Deck 2 motor switch.
12. S12: AC/DC select switch.
13. S13: Deck 1 cue/review switch.
14. S14-1~S14-3: FWD/REV select switch.
15. S401: Station memory switch (1).
16. S402: Station memory switch (2).
17. S403: Station memory switch (3).
18. S404: Station memory switch (4).
19. S405: Station memory switch (5).
20. S406: Station memory switch (6).
21. S407: Station memory switch (7).
22. S408: Station memory switch (8).
23. S409: Memory switch.
24. S410: Tuning/Time set switch (−).
25. S411: Tuning/Time set switch (+).
26. S412: Display switch.
27. S413: FM1 switch.
28. S414: FM2 switch.
29. S415: FM3 switch.
30. S416: AM switch.
31. S417: Memory scan switch.
32. S418: Sleep switch.
33. S419: Timer switch.
34. S420: On-time switch.
35. S421: Adjust switch.
36. S422: Power switch.
37. VR1: FM VCO adjustment VR.
38. VR101: Deck 1 playback gain adjustment VR (Lch).
39. VR102: Deck 2 playback gain adjustment VR (Lch).
40. VR103: Record level adjustment VR (Lch).
41. VR111: Graphic equalizer control (100 Hz)/XBS level control VR (Lch).
42. VR112: Graphic equalizer control VR (330 Hz, Lch).
43. VR113: Graphic equalizer control VR (1 kHz, Lch).
44. VR114: Graphic equalizer control VR (3.3 kHz, Lch).
45. VR115: Graphic equalizer control VR (10 kHz, Lch).
46. VR116: Volume control VR (Lch).
47. VR201: Deck 1 playback gain adjustment VR (Rch).
48. VR202: Deck 2 playback gain adjustment VR (Rch).
49. VR203: Record level adjustment VR (Rch).
50. VR211: Graphic equalizer control (100 Hz)/XBS level control VR (Rch).
51. VR212: Graphic equalizer control VR (330 Hz, Rch).
52. VR213: Graphic equalizer control VR (1 kHz, Rch).
53. VR214: Graphic equalizer control VR (3.3 kHz, Rch).
54. VR215: Graphic equalizer control VR (10 kHz, Rch).
55. VR216: Volume control VR (Rch).
56. VR302: Record bias (CrO_2) adjustment VR.
57. VR303: Record bias (Normal) adjustment VR.
58. VR304: Balance control VR.
59. VR501: Tape speed adjustment VR.
60. DC voltage measurements are taken with electronics voltmeter. The negative terminal of the battery provides negative meter connection point.
    No mark...PLAYBACK, [ ]...RECORD, ( )...AM, < >...FM
    ≪ ≫ ...HIGH SPEED
61. Battery Currect: Vol. min. .....200 mA (Tape Playback)
    Vol. max. .....1450 mA (Radio)
    1500 mA (Tape Playback)
    Measurement instruction
    (Radio: FM 60 dB, 30% Mod.
    Tape: 315 Hz, 0 dB)
62. The mark (▮▮▮) shows test point e.g. **TP1** = test point 1.
63. Important safety notice.
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 4 A 125 V FUSE.

RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

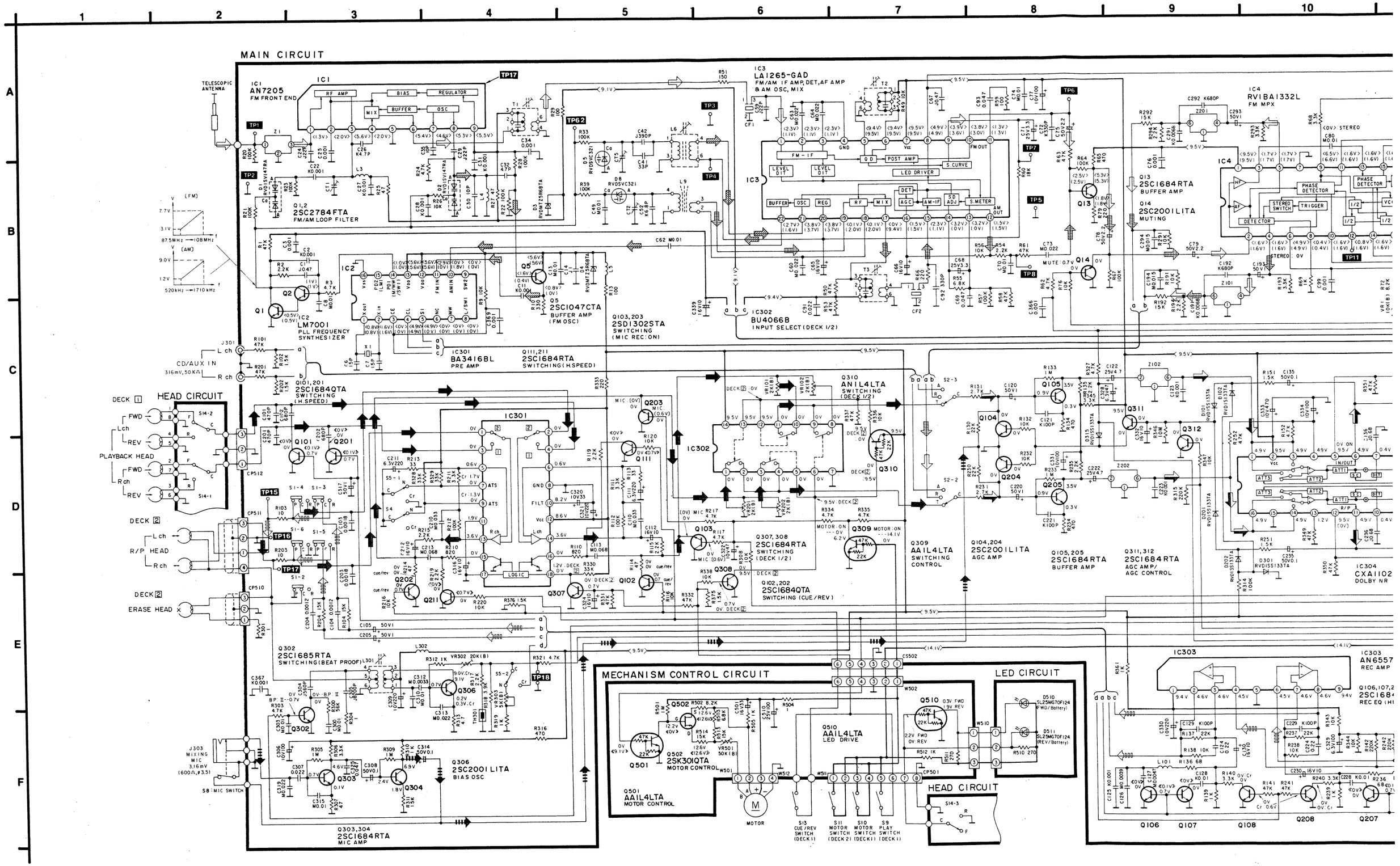
▮▮ This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

▮▮ Ce symobole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symobole est apposé.

- This schematic diagram may be modified at any time with the development of new technology.

⇨: FM SIGNAL LINE ⇛: AM SIGNAL LINE ⇨: FM OSC SIGNAL LINE
⇛: AM OSC SIGNAL LINE ➡: PLAYBACK SIGNAL LINE ➡: +B LINE
⇛: MIC SIGNAL LINE ⇨: RECORD SIGNAL LINE ⇨: MAIN SIGNAL LINE

SCHEMATIC DIAGRAM (for Main/Mechanism/LED/Graphic E.Q./Battery/Power Supply Circuit)


MAIN CIRCUIT
IC1 AN7205 FM FRONT END
IC2 LM7001 PLL FREQUENCY SYNTHESIZER
IC3 LA1265-GAD FM/AM IF AMP, DET, AF AMP & AM OSC, MIX
IC4 RVIBA1332L FM MPX
IC301 BA3416BL PRE AMP
IC302 BU4066B INPUT SELECT (DECK 1/2)
IC303 AN6557 REC AMP
IC304 CXA1102 DOLBY NR
Q1,2 2SC2784FTA FM/AM LOOP FILTER
Q13 2SC1684RTA BUFFER AMP
Q14 2SC2001LITA MUTING
Q101,201 2SC1684QTA SWITCHING (H.SPEED)
Q103,203 2SD1302STA SWITCHING (MIC REC:ON)
Q111,211 2SC1684RTA SWITCHING (H.SPEED)
Q202,302 2SC1685RTA SWITCHING (BEAT PROOF)
Q303,304 2SC1684RTA MIC AMP
Q306 2SC2001LITA BIAS OSC
Q307,308 2SC1684RTA SWITCHING (DECK 1/2)
Q309 AA1L4LTA SWITCHING CONTROL
Q310 AN1L4LTA SWITCHING (DECK 1/2)
Q501 AA1L4LTA MOTOR CONTROL
Q502 2SK301QTA MOTOR CONTROL
Q510 AA1L4LTA LED DRIVE
Q102,202 2SC1684QTA SWITCHING (CUE/REV)
Q104,204 2SC2001LITA AGC AMP
Q105,205 2SC1684RTA BUFFER AMP
Q311,312 2SC1684RTA AGC AMP/ AGC CONTROL
Q106,107,108 2SC1684 REC EQ (HI
Q203 MIC
Q204 Q205 Q207 Q208 Q304 Q306 Q307 Q308 Q309 Q310 Q501 Q502 Q510 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12
TELESCOPIC ANTENNA
CD/AUX IN 316mV, 50KΩ
HEAD CIRCUIT
DECK 1
FWD
REV
PLAYBACK HEAD
REC/PB HEAD
ERASE HEAD
R/P HEAD
MIC 3.16mV (600Ω, φ3.5)
S8: MIC SWITCH
MECHANISM CONTROL CIRCUIT
LED CIRCUIT
MOTOR
S9 PLAY SWITCH (DECK 1)
S10 MOTOR SWITCH (DECK 2) (DECK 1)
S11 MOTOR SWITCH (DECK 2)
S13 CUE/REV SWITCH (DECK 1)
D510 SLR5M670F124 (FWD/Battery)
D511 SLR5M670F124 (REV/Battery)
TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP11 TP15 TP16 TP17 TP18 TP62
9.1V
9.4V
9.5V
14.1V

10 11 12 13 14 15 16 17 18 19

GRAPHIC EQUALIZER AMP/XBS AMP CIRCUIT

IC4 RVIBA1332L FM MPX

IC307 BA3822LS G.EQUALIZER AMP

Q109,209 2SC1684RTA XBS AMP

Q15 AN1L4LTA POWER SUPPLY

Q16 2SA564RTA POWER SUPPLY

Q18,19 2SC1684RTA DC-DC CONV.

LED(VOLUME) CIRCUIT

Q331 2SC1684RTA LED DRIVE

IC305 BA6109 MOTOR DRIVE

Q320 2SD882Q REGULATOR

Q322 2SA564RTA STABILIZER

Q323 AA1L4LTA STABILIZER

Q325 2SC1684RTA REGULATOR

IC306 AN7133N POWER AMP

IC304 CXA1102P DOLBY NR

IC303 AN6557F REC AMP

Q106,107,206,207 2SC1684QTA REC EQ (HIGH SPEED)

Q208 Q207 Q206 Q108,208 2SC1684QTA REC EQ (CrO2)

Q313 2SC1684QTA SWITCHING (HIGH SPEED)

Q330 2SD882Q POWER SUPPLY

Q324 AA1L4LTA SWITCHING (RADIO)

Q305 2SC1684RTA SWITCHING CONT.

IC308 S81250HG REGULATOR

Q328 2SC1684QTA REGULATOR

Q326 AA1L4LTA POWER SUPPLY

Q327 AN1L4LTA POWER SUPPLY

POWER SUPPLY CIRCUIT

TO OPERATION SWITCH CIRCUIT (W401)

TO OPERATION SWITCH CIRCUIT (CP402)

MOTOR (VOLUME)

(L ch) CERAMIC SPEAKER 3/4"(2cm) (TWEETER)

PM DYNAMIC SPEAKER 6 1/4"(16cm) 2.7Ω (WOOFER)

(R ch) CERAMIC SPEAKER 3/4"(2cm) (TWEETER)

PM DYNAMIC SPEAKER 6 1/4"(16cm) 2.7Ω (WOOFER)

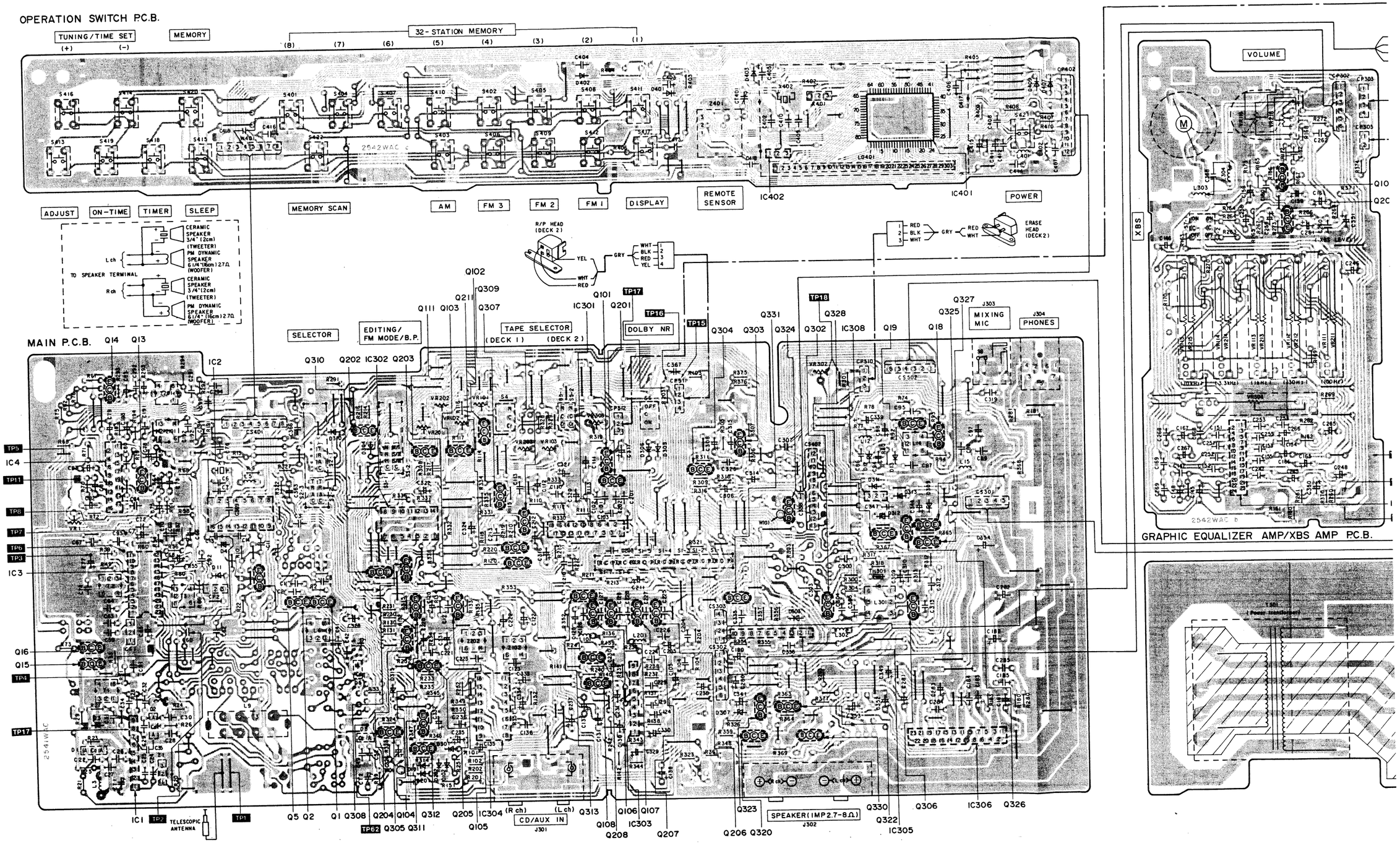
J304 HEADPHONES 32Ω (φ3.5)

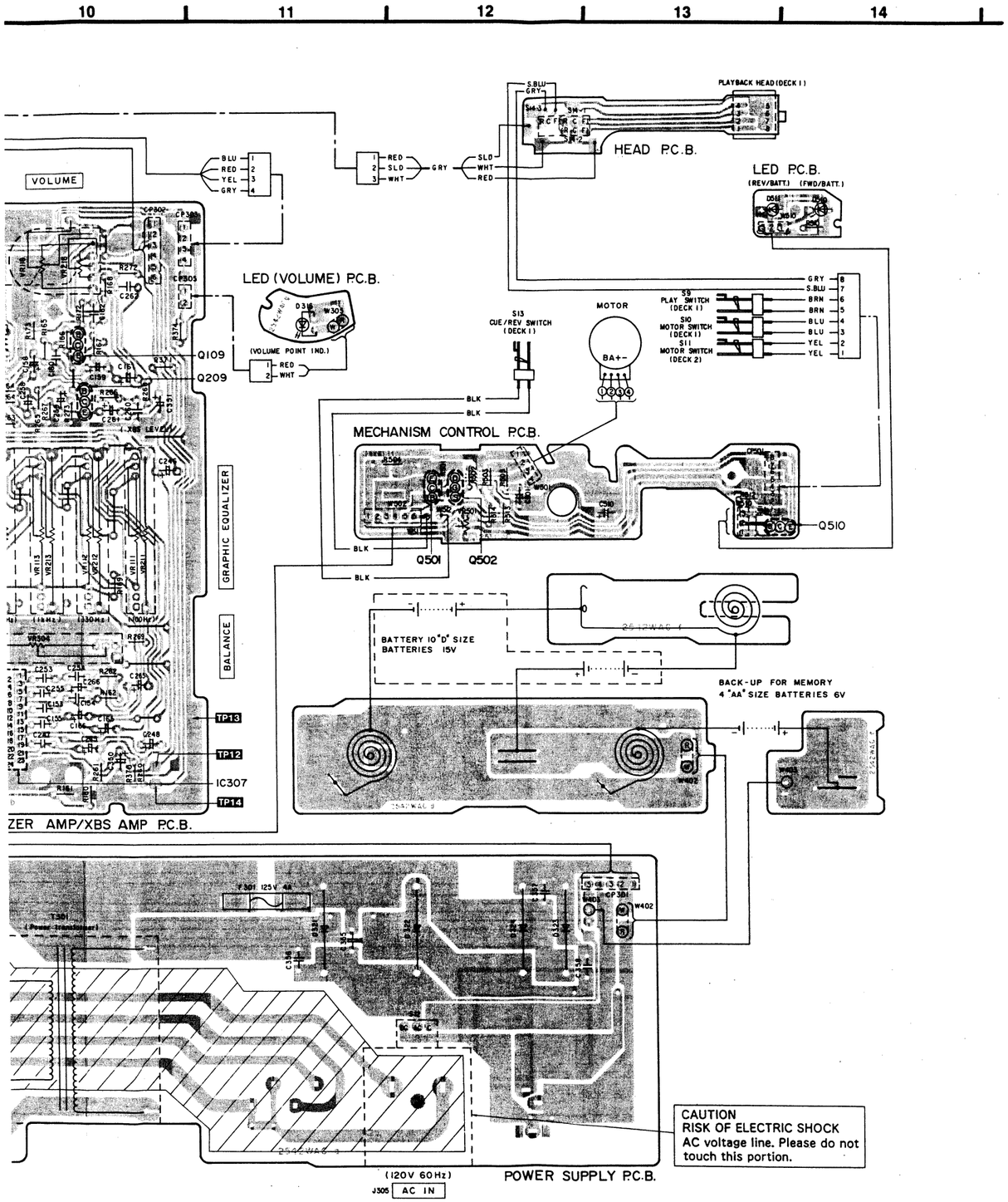
AC IN (120V 60Hz)

BATTERY 10"D"SIZE BATTERIES 15V

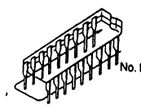
BACK-UP FOR MEMORY 4"AA"SIZE BATTERIES 6V

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



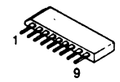


■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



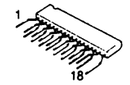
BU4066B	14 Pin
CXA1102P	16 Pin
LM7001	16 Pin
LA1265-GAD	22 Pin

AN6557F
AN7205

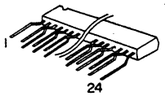


RVIBA1332L

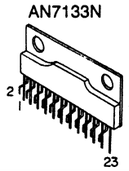
BA3416BL



BA3822LS



AN7133N



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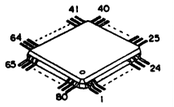

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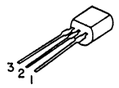
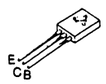
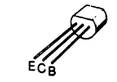
S81250HG



2SD882Q



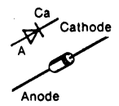


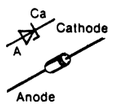
2SA564RTA
2SC1047CTA
2SC1684QTA
2SC1684RTA
2SC1685RTA
2SC2001L1TA
2SD1302STA
AA1L4LTA

2SC2784FTA
AA1L4LTA
AN1L4LTA

2SK301QTA

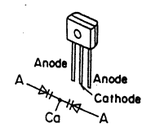
RVD1SS133TA



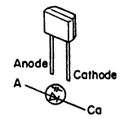


RVDMTZ11BTA
RVDMTZ15BTA
RVDMTZ5R6BTA
RVDMTZ6R2BTA

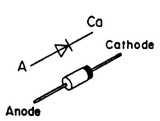
RVDISV147RA



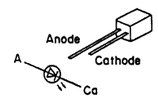
RVDSVC321



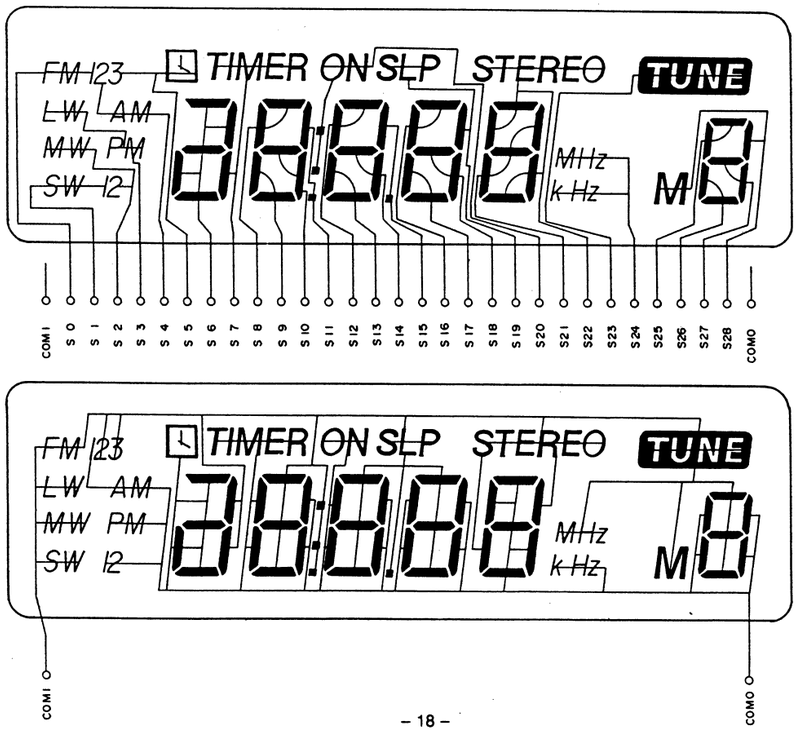
RVDP300DLF



RVDSL55VR3FT



LIQUID CRYSTAL DISPLAY (LCD)



MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set FM mode selector switch to FM ST.
3. Set band switch to AM or FM.
4. Set function selector to RADIO or TAPE.
5. Set power source voltage to 15 V DC.
6. Set G.E.Q. control to center.
7. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Refer to Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 3. and then connect the lead wires of the plug to the measuring instrument.	T3 (AM IFT)	Adjust for maximum output.

■ AM-RF ALIGNMENT

Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	520 kHz	Tuning capacitor fully closed.	TP62 ...(+) TP5 ...(−)	L6 (AM OSC Coil)	Adjust L6, for 1.2±0.3 V reading on DC voltmeter.
〃	1,710 kHz	Tuning capacitor fully open.	〃	CT5 (AM OSC Trimmer)	Adjust CT5, for 9±0.3 V reading on DC voltmeter.
〃	600 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 3. and then connect the lead wires of the plug to the measuring instrument.	(*1) L9 (AM ANT Coil)	Adjust for maximum output. Adjust L9 by moving coil along the ferrite core.
〃	1,400 kHz	〃	〃	CT2 (AM ANT Trimmer)	Adjust for maximum output.

(*1) Fix antenna coil with wax after completing alignment.

■ FM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Refer to Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP17 through ceramic capacitor (0.001 μF). Negative side to test point TP2.	10.7 MHz (SWEEP)	Point of interference (on/about 90 MHz)	Connect vert. amp. scope to test point TP6. Negative side to test point TP5.	T1 (FM 1st)	Adjust for maximum amplitude. (Refer to Fig. 3.)
〃	〃	〃	〃	T2 (FM 2nd)	Adjust for maximum amplitude. (Refer to Fig. 4.)

■ FM DC BALANCE ALIGNMENT

FM SIGNAL GENERTOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT (Refer to Fig. 1.)	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2.	TP4 ...(+) TP7 ...(−)	T2	0±30 mV	Adjust T2, for 0±30 mV reading on DC voltmeter.

■ FM-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Refer to Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2.	87.50 MHz	Tune to signal	TP62 ...(+) TP5 ...(−)	—	3.0±1.0 V
〃	108.00 MHz	〃	〃	—	7.0±1.0 V
〃	90.00 MHz	〃	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 3. and then connect the lead wires of the plug to the measuring instrument.	T3 (FM ANT Coil)	(*2) Adjust for maximum output.
〃	106.00 MHz	〃	〃	CT1 (FM ANT Trimmer)	〃

(*2) Four output responses will be present; proper tuning is the center frequency.

■ SEPARATION ALIGNMENT

FM SIGNAL GENERTOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT (Refer to Fig. 1.)	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2.	TP11 ...(+) TP5 ...(−)	VR1	19 kHz	Adjust VR1, for 19 kHz ±50 Hz reading on frequency counter.

■ HEAD AZIMUTH ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
QZZCFM (8 kHz, −20 dB)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 3. and then connect the lead wires of the plug to the measuring instrument.	Azimuth screw (Refer to Fig. 6.)	1. Test equipment connection is shown in Fig. 7. 2. Playback the azimuth adjusted part (8 kHz, −20 dB) of the test tape (QZZCFM) and regulate the angle adjusting screw so that the outputs of L-CH and R-CH are maximized. (When the adjusting positions are different with L-CH and R-CH, find a position where the outputs of L-CH and R-CH are balanced, and then make the adjustment.) 3. At the same time, draw a lissajous waveform and eliminate phase deflection. 4. After the adjustment, apply screw-lock to the angle adjusting value.

■ PLAYBACK GAIN ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT (Refer to Fig. 2.)	REMARKS
QZZCFM (315 Hz, 0 dB)	TP12 ...Lch TP13 ...GND TP14 ...Rch	DECK 1 (Lch)...VR101 (Rch)...VR201 DECK 2 (Lch)...VR102 (Rch)...VR202	1. Playback mode. 2. Adjust VR, for −11 dBV ±0.5 dBV. (280 mV ±0.5 dB)

■ BIAS OSCILLATION ALIGNMENT

TEST POSITION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT (Refer to Fig. 2.)	REMARKS
CrO_2	TP15 ...(+) TP16 ...(−)	VR302	1. Test equipment connection is shown in Fig. 8. 2. Record mode. 3. Adjust VR302, for AC 21 V ±0.5 V.
Normal	〃	VR303	1. Test equipment connection is shown in Fig. 8. 2. Record mode. 3. Adjust VR303, for AC 13 V ±0.5 V.

■ RECORD/PLAYBACK LEVEL ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
QZZCFM (315 Hz, 0 dB)	**TP12**...Lch **TP13**...GND **TP14**...Rch	Lch...VR103 Rch...VR203	1. Insert test tape QZZCFM in DECK 1 and a editing tape in DECK 2. 2. Set the unit to the dubbing mode at normal speed. 3. Adjust VR103 and VR203 until the difference between the playback level for DECK 1 and the recording level for DECK 2 is within 1 dB (refer to Fig. 7).
	TP15...Lch **TP16**...GND **TP17**...Rch		1. Short-circuit **TP18** with solder. 2. Insert test tape QZZCFM in DECK 1 and a editing tape in DECK 2. 3. Set the unit to the dubbing mode at normal speed. 4. Adjust VR103 and VR203, for AC 17 mV ±0.5 mV.

■ TAPE SPEED ADJUSTMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
QZZCWAT (3 kHz)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 3. and then connect the lead wires of the plug to the measuring instrument.)	VR501 (Refer to Fig. 6.)	**Normal Speed Adjustment** 1. Insert a test tape (QZZCWAT) in Deck 1 and play it back. 2. Adjust **VR501** until the measured value becomes **3000±30 Hz**.

3. Check Deck 2 in the same way to make sure it satisfies the specification.
   Deck 2...±50 Hz of the speed of Deck 1.
   If it doesn't repeat steps 1 and 2 above.
   Note: This set uses one drive motor, so be sure to perform the adjustment in Deck 1.

High Speed Measurement

4. Insert the playback tape into Deck 1 and the editing tape into Deck 2.
5. Set the Editing Mode Selector to the "HIGH" position.
6. Press the Deck 2 Pause button, then press the Record Button.
7. Press the Deck 1 Playback Button.
   ●Editing is started by means of the Synchro-Start function.
8. Check be sure that the measured speed is at least **1.63 times** faster than normal speed.

■ ALIGNMENT POINT

●Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

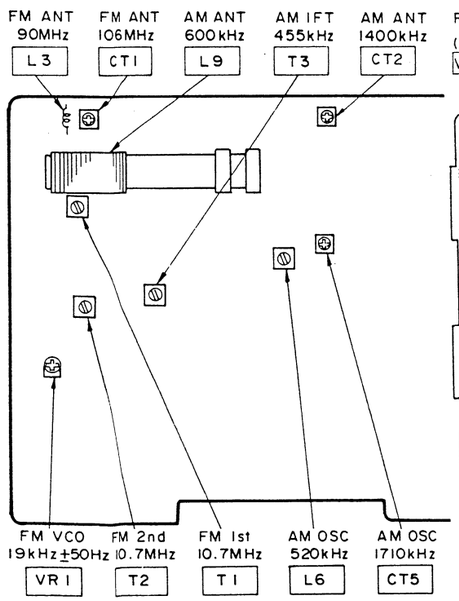


Fig. 1

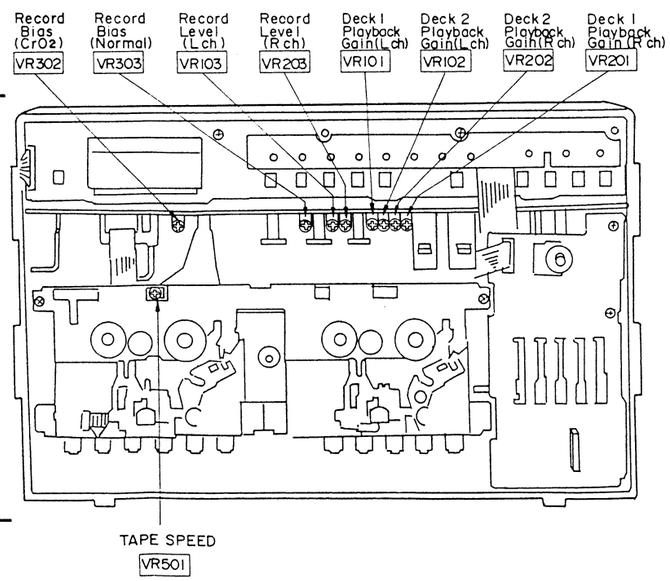


Fig. 2

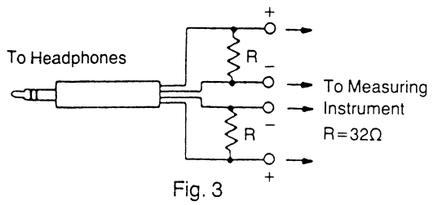


Fig. 3

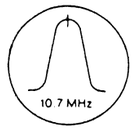


Fig.4

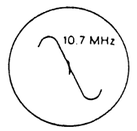
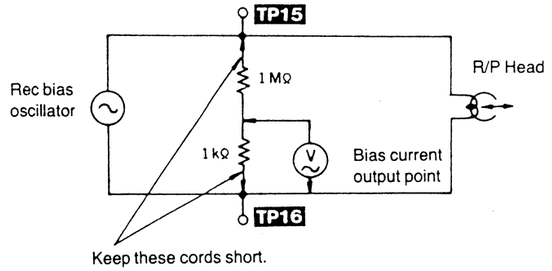


Fig. 5



●In order not to influence the bias oscillation, divide the voltage with 1 MΩ and 1 kΩ resistors, and measure the voltage across the 1 kΩ resistor.

Fig. 8

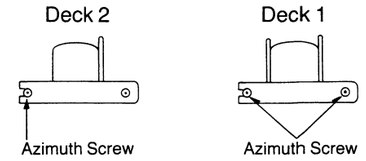


Fig. 6

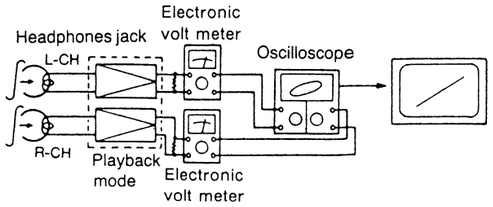


Fig. 7

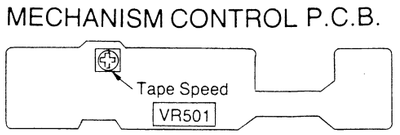
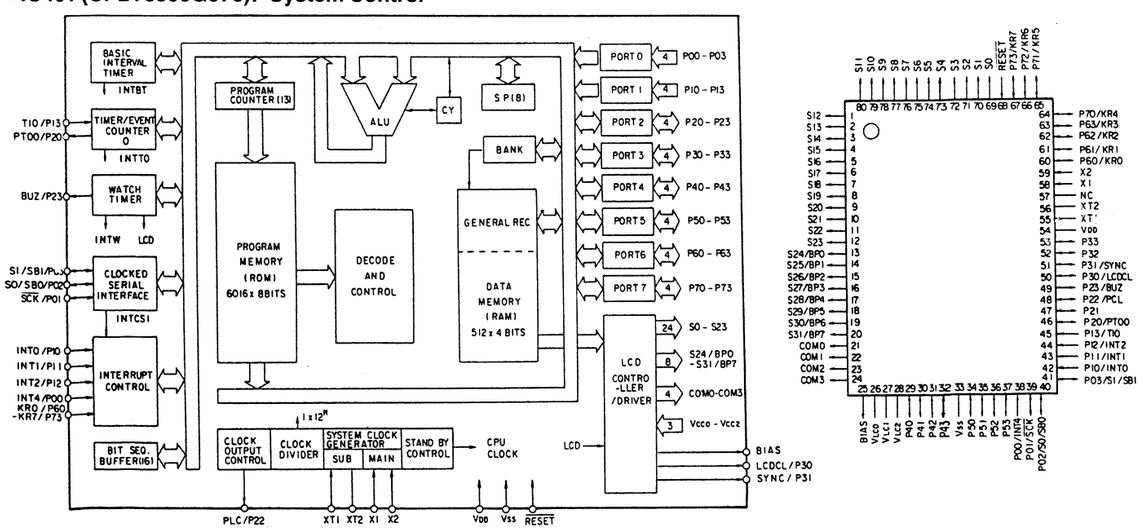


Fig. 9

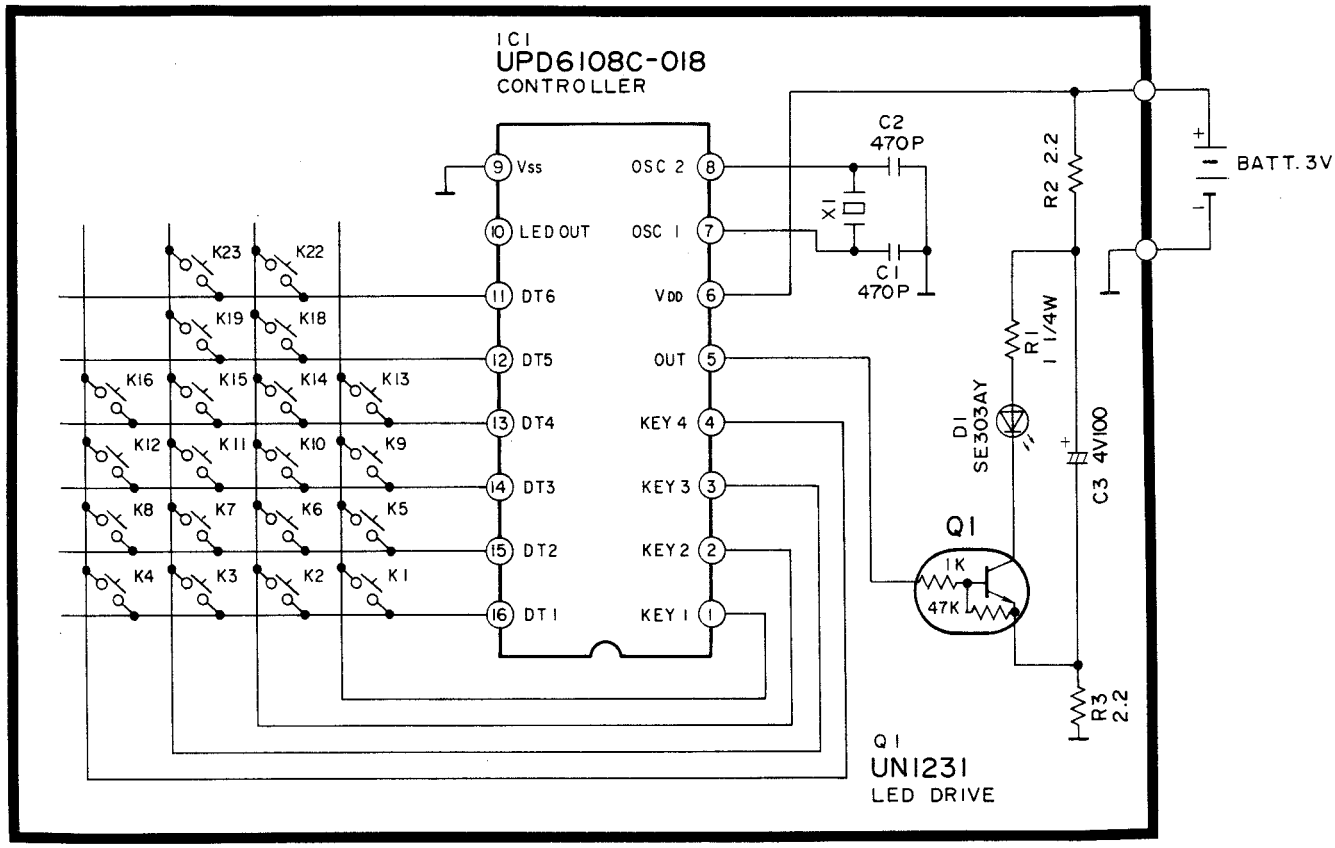
FUNCTIONS OF IC TERMINALS

●IC401 (UPD75306G073): System Control



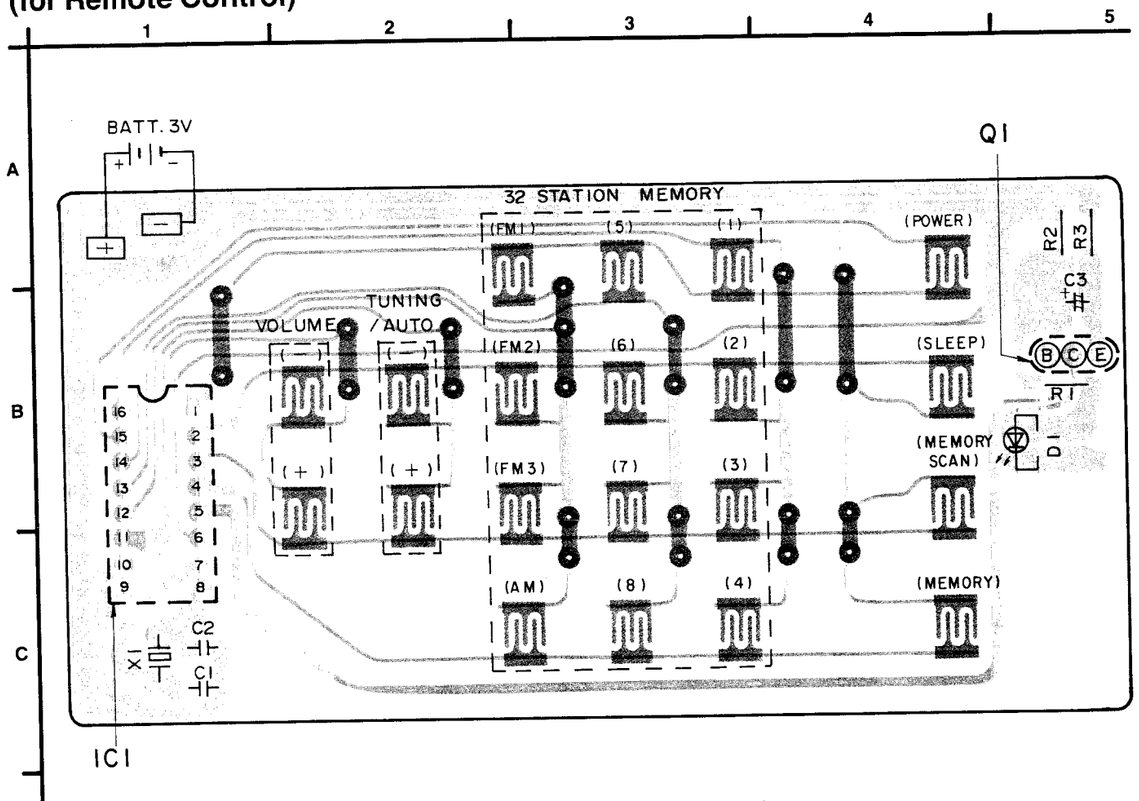
Terminal Number	Port Assigment	I/O	Name	Function
1~20	S12~S31	O	———	Output the LCD drive signal.
21~24	COM 0~COM 3	O	———	Output the common signal.
25	BIAS	—	———	———
26~28	VLC 0~ VLC 2	—	———	———
29	P40	O	VR UP	Outputs the motor rotation control signal for the motor operated volume.
30	P41	O	VR DOWN	
31	P42	O	FM	Outputs the FM/AM switch signal (AM: HIGH, FM: LOW).
32	P43	O	CE	Outputs the data transfer control to the PLL IC (can be transferred at HIGH).
33	VSS	—	———	GND
34	P50	I	STEREO	Inputs the stereo display signal (displays "STEREO" on the LCD at LOW).
35	P51	I	SIGNAL	Displays "TUNE" and inputs the auto stop detection signal (Displays "TUNE" and auto stop function at LOW).
36	P52	—	———	———
37	P53	I	AC IN	Inputs the AC power supply detection signal (assuming that AC power supply is turned ON at HIGH).
38	P00	I	REMOTE	Inputs the remote control signal.
39	P01	O	CLOCK	Clock output of the data transfer to the PLL IC.
40	P02	O	DATA	Outputs data to the PLL IC.
41	P03	—	———	———
42	P10	I	RADIO	Operation selector switch; inputs the "RADIO" detection signal.
43	P11	I	BATTERY	Inputs the main power supply detection signal (prevents the power from being turned ON at LOW).
44	P12	—	———	———
45	P13	—	———	———
46~48	P20~P22	O	———	Key matrix signal source.
49	P23	—	———	———
50	P30	O	MUTE	Outputs the audio mute signal.
51	P31	O	POWER OUT	Outputs the main power supply control signal (turns the power ON at HIGH).
52	P32	O	STANDBY	Outputs the remote controlled power supply control signal (performs the operation of the light reception section at HIGH).
53	P33	O	LED	Outputs the LED control signal for checking the operation of the motor operated volume.
54	VDD	—	———	+B
55	TX1	I	———	Crystal connection terminal for the oscillation of the subsystem clock.
56	TX2			
57	NC	—	———	———
58	X1	I	———	Crystal connection terminal for the oscillation of the main system clock.
59	X2			
60~67	P60~P63, P70~P73	I	———	Input the key matrix signal.
68	RESET	I	———	Input the system reset signal.
69~71	S0~S2	—	———	———
72~80	S3~S11	O	———	Outputs the LCD drive signal.

SCHEMATIC DIAGRAM (for Remote Control)



Key No.	Date Code	Function	Key No.	Date Code	Function
1	16	1	13	3A	FM 1
2	17	2	14	3B	FM 2
3	18	3	15	3C	FM 3
4	19	4	16	3D	AM
5	20	POWER	17		
6	21	SLEEP SET	18	23	TUNING DOWN
7	26	MEMORY SCAN	19	22	TUNING UP
8	2F	MEMORY SET	20		
9	1A	5	21	31	
10	1B	6	22	26	VOLUME DOWN
11	1C	7	23	25	VOLUME UP
12	1D	8	24		

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (for Remote Control)



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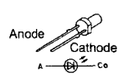
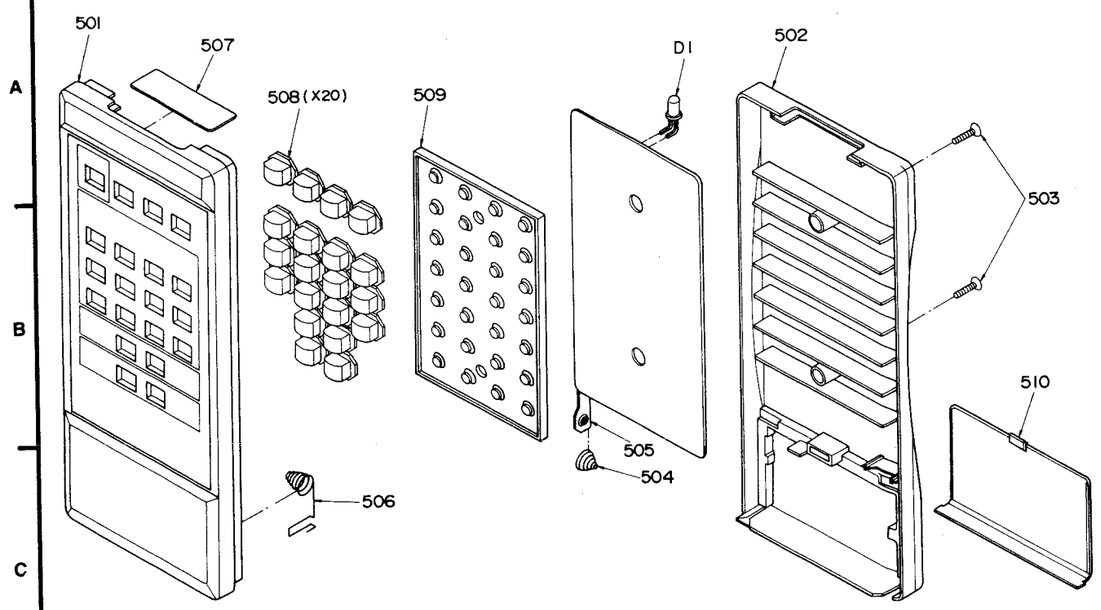
		

CABINET PARTS LOCATION (for Remote Control)



Ref. No.	Part No.	Description
REMOCON		
INTEGRATED CIRCUITS		
IC1	UPD6108C-018	I.C M
DIODES		
Q1	UN1231	TRANSISTOR
COILS		
D1	SE303AY	L.E.D
OSCILLATORS		
X1	CSB455EB6	X'TAL M
RESISTORS		
R1	ERDS2TJ1R0	CARBON FILM RESISTOR
R2	ERDS2TJ2R2	CARBON FILM RESISTOR
R3	ERDS2TJ2R2	CARBON FILM RESISTOR
CAPACITORS		
C1	ECKF1H471KB	CERAMIC CAPACITOR
C2	ECKF1H471KB	CERAMIC CAPACITOR
C3	ECEA0JK101	ELECTROLYTIC CAPACITOR, AL
MECHANISM PARTS		
501	UR64VCS823	UPPER CABINET M
502	UR64VCS824	BOTTOM CABINET M
503	XTS26+8GFZ	SCREW
504	UR64TD557A	TERMINAL, - M
505	UR64TD127	BATTERY TERMINAL
506	UR64TD556	TERMINAL, +/- M
507	UR64SB125	PANEL
508	UR64BT123AA	BUTTON
509	UR64CT122	PLATE
510	UR64EC121	BATTERY COVER

■ REPLACEMENT PARTS LIST

Notes : * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.
* Remote Control Ass'y:
Supply period for three years from termination of production.
* Ⓜ Indicates parts that are supplied by **MESA.**

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC1	AN7205	I.C, FRONT END
IC2	LM7001	I.C, PLL CONTROL
IC3	LA1265-GAD	I.C, IF/DET AMP
IC4	RV1BA1332L	I.C, FM MPX
IC301	BA3416BL	I.C, PRE AMP/SWITCHING
IC302	BU4066B	I.C, SWITCHING
IC303	AN6557F	I.C, REC AMP
IC304	CXA1102P	I.C, DOLBY
IC305	BA6109	I.C, MOTOR DRIVE
IC306	AN7133N	I.C, POWER AMP
IC307	BA3822LS	I.C, G.E.Q AMP
IC308	S81250HG	I.C, REGULATOR
IC401	UPD75306G073	I.C, SYSTEM CONTROL Ⓜ
IC402	S8053ALB	I.C, RESET Ⓜ
TRANSISTORS		
Q1	2SC2784EFTA	TRANSISTOR
Q2	2SC2784EFTA	TRANSISTOR
Q5	2SC1047CTA	TRANSISTOR
Q13	2SC1685-Q	TRANSISTOR
Q14	2SC2001L1	TRANSISTOR
Q15	AN1L4LTA	TRANSISTOR Ⓜ
Q16	2SA722-S	TRANSISTOR
Q18	2SC1685-Q	TRANSISTOR
Q19	2SC1685-Q	TRANSISTOR
Q101	2SC1685-Q	TRANSISTOR
Q102	2SC1685-Q	TRANSISTOR
Q103	2SD1302S	TRANSISTOR
Q104	2SC2001L1	TRANSISTOR
Q105	2SC1685-Q	TRANSISTOR
Q106	2SC1685-Q	TRANSISTOR
Q107	2SC1685-Q	TRANSISTOR
Q108	2SC1685-Q	TRANSISTOR
Q109	2SC1685-Q	TRANSISTOR
Q111	2SC1685-Q	TRANSISTOR
Q201	2SC1685-Q	TRANSISTOR
Q202	2SC1685-Q	TRANSISTOR
Q203	2SD1302S	TRANSISTOR
Q204	2SC2001L1	TRANSISTOR
Q205	2SC1685-Q	TRANSISTOR
Q206	2SC1685-Q	TRANSISTOR
Q207	2SC1685-Q	TRANSISTOR
Q208	2SC1685-Q	TRANSISTOR
Q209	2SC1685-Q	TRANSISTOR
Q211	2SC1685-Q	TRANSISTOR
Q302	2SC1685RS	TRANSISTOR Ⓜ
Q303	2SC1685-Q	TRANSISTOR
Q304	2SC1685-Q	TRANSISTOR
Q305	2SC1685-Q	TRANSISTOR
Q306	2SC2001L1	TRANSISTOR
Q307	2SC1685-Q	TRANSISTOR
Q308	2SC1685-Q	TRANSISTOR
Q309	AA1L4LTA	TRANSISTOR Ⓜ
Q310	AN1L4LTA	TRANSISTOR Ⓜ
Q311	2SC1685-Q	TRANSISTOR
Q312	2SC1685-Q	TRANSISTOR
Q313	2SC1685-Q	TRANSISTOR
Q320	2SD882-Q	TRANSISTOR
Q322	2SA722-S	TRANSISTOR
Q323	AA1L4LTA	TRANSISTOR Ⓜ
Q324	AA1L4LTA	TRANSISTOR Ⓜ
Q325	2SC1685-Q	TRANSISTOR
Q326	AA1L4LTA	TRANSISTOR Ⓜ
Q327	AN1L4LTA	TRANSISTOR Ⓜ
Q328	2SC1685-Q	TRANSISTOR
Q330	2SD882-Q	TRANSISTOR
Q331	2SC1685-Q	TRANSISTOR
Q501	AA1L4LTA	TRANSISTOR Ⓜ
Q502	2SK301Q,TA	TRANSISTOR Ⓜ
Q510	AA1L4LTA	TRANSISTOR Ⓜ
DIODES		
D1	RVD1SV147RA	DIODE
D2	RVD1SV147RA	DIODE
D3	RVDMTZ5R6B	DIODE
D4	RVDMTZ5R6B	DIODE
D5	RVDSVC321	DIODE
D8	RVDSVC321	DIODE
D11	RVD1SS133	DIODE
D12	RVDMTZ11B	DIODE
D13	RVD1SS133	DIODE
D101	RVD1SS133	DIODE
D102	RVD1SS133	DIODE
D201	RVD1SS133	DIODE
D202	RVD1SS133	DIODE
D301	RVD1SS133	DIODE
D303	RVDMTZ6R8B	DIODE
D304	RVD1SS133	DIODE
D305	RVD1SS133	DIODE
D306	RVD1SS133	DIODE
D307	RVDUTZ15B	DIODE
D309	RVDMTZ6R2B	DIODE
D310	RVD1SS133	DIODE
D311	RVD1SS133	DIODE
D312	RVDMTZ11B	DIODE
D313	RVD1SS133	DIODE
D315	RVD1SS133	DIODE
D316	SLB15VR3F	DIODE Ⓜ
D321	RVDP300D	DIODE
D322	RVDP300D	DIODE
D323	RVDP300D	DIODE
D324	RVDP300D	DIODE
D401	RVD1SS133	DIODE
D402	RVD1SS133	DIODE
D403	RVD1SS133	DIODE
D407	RVD1SS133	DIODE
D409	RVD1SS133	DIODE
D510	SL25MG70F124	DIODE Ⓜ
D511	SL25MG70F124	DIODE Ⓜ
VARIABLE RESISTORS		
VR1	RVNCA14B1T-A	V.R, FM VCO AJD. Ⓜ
VR101	RVNCC23B1T-A	V.R, DECK1 P.B GAIN(L) Ⓜ
VR102	RVNCC23B1T-A	V.R, DECK2 P.B GAIN(L) Ⓜ
VR103	RVNCC15B1T-A	V.R, REC LEVEL(L) Ⓜ
VR111	EWAGQ6C14G54	V.R, G.EQ(100HZ)/XBS(L) Ⓜ
VR112	EWAGQ6C14G54	V.R, G.EQ(330HZ)(L) Ⓜ
VR113	EWAGQ6C14G54	V.R, G.EQ(1KHZ)(L) Ⓜ
VR114	EWAGQ6C14G54	V.R, G.EQ(3.3KHZ)(L) Ⓜ
VR115	EWAGQ6C14G54	V.R, G.EQ(10KHZ)(L) Ⓜ
VR116	EWC07A027B54	V.R, VOLUME(L)
VR201	RVNCC23B1T-A	V.R, DECK1 P.B GAIN ADJ. Ⓜ
VR202	RVNCC23B1T-A	V.R, DECK2 P.B GAIN ADJ. Ⓜ
VR203	RVNCC15B1T-A	V.R, REC LEVEL ADJ. Ⓜ
VR211	EWAGQ6C14G54	V.R, G.EQ(100HZ)/XBS Ⓜ
VR212	EWAGQ6C14G54	V.R, G.EQ(330HZ)(R) Ⓜ
VR213	EWAGQ6C14G54	V.R, G.EQ(1KHZ)(R) Ⓜ
VR214	EWAGQ6C14G54	V.R, G.EQ(3.3KHZ)(R) Ⓜ
VR215	EWAGQ6C14G54	V.R, G.EQ(10KHZ)(R) Ⓜ
VR216	EWC07A027B54	V.R, VOLUME(R)
VR302	RVNCC24B1T-A	V.R, REC BIAS(CR02)
VR303	RVNCC53B1T-A	V.R, REC BIAS(NORMAL)
VR304	EWAGU3C14G15	V.R, BALANCE Ⓜ
VR501	RVNCA53B1T-A	V.R, TAPE SPEED Ⓜ
VARIABLE CAPACITORS		
CT1	ECRLA020E53R	TRIMMER CAPACITOR
CT2	ECRLA010A53R	TRIMMER CAPACITOR
CT5	ECRLA020E53R	TRIMMER CAPACITOR
CT401	ECRLA020E53R	TRIMMER CAPACITOR

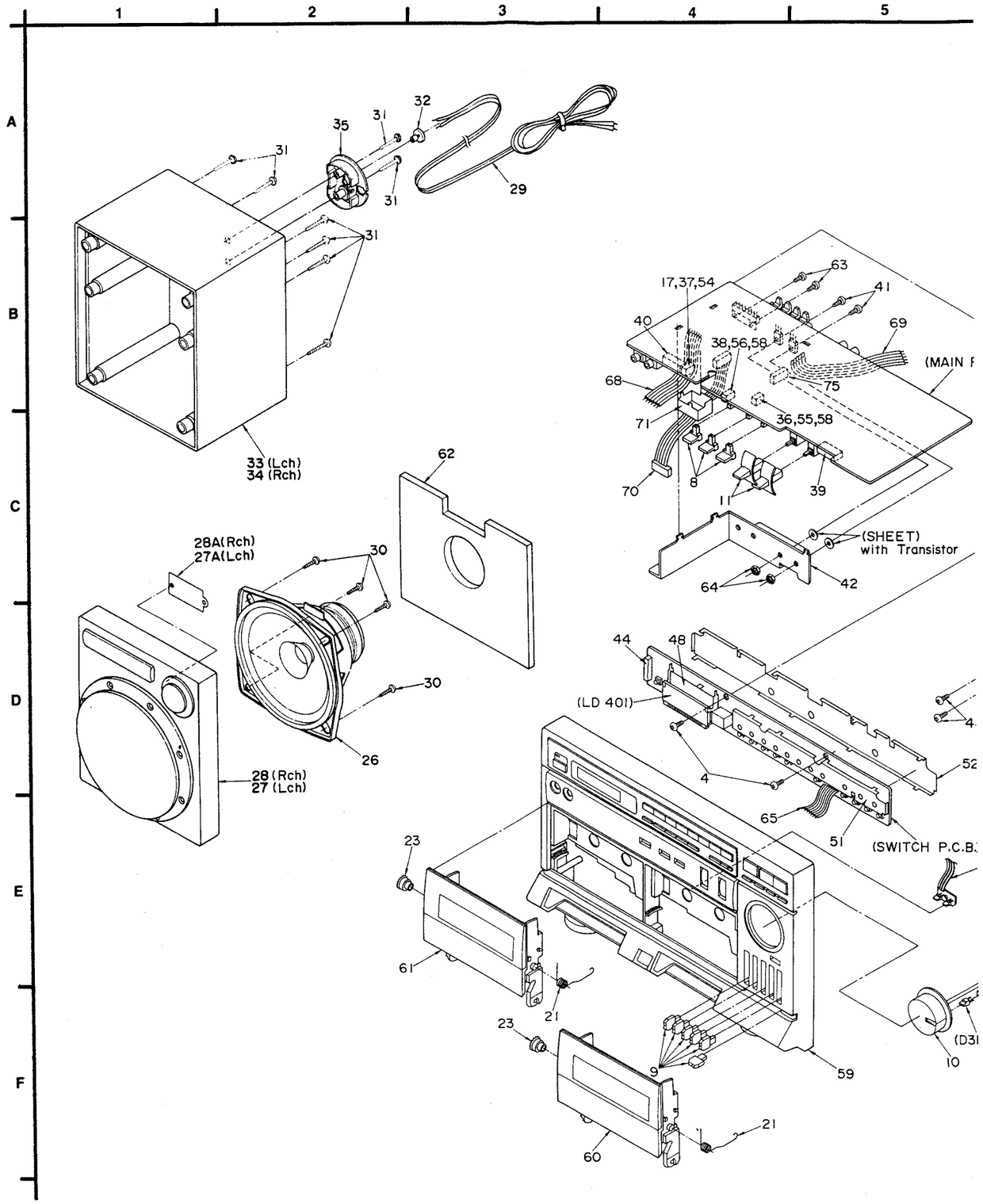
Ref. No.	Part No.	Description
THERMISTORS AND VARISTORS		
TH301	RRT302T-H	THERMISTOR
COILS AND TRANSFORMERS		
L3	RLD4Y54	COIL, FM DET
L4	RL04Y116	OSCILLATOR COIL Ⓜ
L5	RLQZR102KT-Y	COIL
L6	RL02B126-M	COIL Ⓜ
L9	RLF2C72-0	COIL Ⓜ
L12	RLQZB100K	COIL
L14	RL09B18-M	COIL
L15	RLQZB221K	COIL
L101	RLQZB822K	COIL
L201	RLQZB822K	COIL
L301	RL08R2	COIL
L302	RLQZR470KT-Y	COIL Ⓜ
L304	RLQV332K-M	COIL Ⓜ
L305	RLQV332K-M	COIL Ⓜ
L401	RLQZP101K	COIL
L402	RLQZP101K	COIL
T1	RL14B153	I.F.TRANSFORMER
T2	RL14B559-M	COIL Ⓜ
T3	RL12B471-M	COIL Ⓜ
T301 ⚠	RLT5L5C4B-X	POWER TRANSFORMER Ⓜ
COMPONENT COMBINATIONS		
Z1	RXABPMB6A	COMPONENT COMBINATION
Z101	RLE2B001-M	COMPONENT COMBINATION
Z102	RLE9B12-M	COMPONENT COMBINATION Ⓜ
Z201	RLE2B001-M	COMPONENT COMBINATION
Z202	RLE9B12-M	COMPONENT COMBINATION Ⓜ
Z401	A1QH3117H0	COMPONENT COMBINATION
FILTERS		
CF1	RVF107WDRT	CERAMIC FILTER Ⓜ
CF2	RVFSFU450C3	CERAMIC FILTER Ⓜ
OSCILLATORS		
X1	SVQ49U722-S	X'TAL
X401	RVBCST4R19MG	X'TAL Ⓜ
X402	RVCQ32NXF	X'TAL
DISPLAYS		
LD401	LDBU9397AZ	DISPLAY Ⓜ
FUSES		
F301 ⚠	XBA1C40NU100	FUSE
SWITCHES		
S1	RSH2G03WA-A	SW, R/P Ⓜ
S2	RST3D30ZA-A	SW, FUNCTION Ⓜ
S3	RST3B36ZA-A	SW, EDITING/FM MODE Ⓜ
S4	RSH2B31Z	SW, DECK1 TAPE
S5	RSH2B31Z	SW, DECK2 TAPE
S6	RSH2B31Z	SW, DOLBY NR
S7	ESB6483	SW, XBS Ⓜ
S8	RJJ1D25Z	JACK, MIC(J303)
S9	RFA83ZA	SW, DECK1 PLAY
S10	RFA92ZA	SW, DECK1 MOTOR
S11	RFA85ZA	SW, DECK2 MOTOR
S13	RFA44Z	SW, DECK1 CUE/REV
S14	RFA63Z	SWITCH, FWD/REV
S401	SSG13	SW, STATION M(1)
S402	SSG13	SW, STATION M(2)
S403	SSG13	SW, STATION M(3)
S404	SSG13	SW, STATION M(4)
S405	SSG13	SW, STATION M(5)
S406	SSG13	SW, STATION M(6)
S407	SSG13	SW, STATION M(7)
S408	SSG13	SW, STATION M(8)
S409	SSG13	SW, MEMORY
S410	SSG13	SW, TUNING/TIME SET(-)
S411	SSG13	SW, TUNING/TIME SET(+)
S412	SSG13	SW, DISPLAY
S413	SSG13	SW, FM1
S414	SSG13	SW, FM2
S415	SSG13	SW, FM3
S416	SSG13	SW, AM
S417	SSG13	SW, MEMORY SCAN
S418	SSG13	SW, SLEEP
S419	SSG13	SW, TIMER
S420	SSG13	SW, ON-TIME
S421	SSG13	SW, ADJUST
S422	SSG13	SW, POWER
JACKS		
J301	RJF1099YA-C	JACK, CD/AUX IN
J302	RJF1098ZA-H	JACK, EXT SP Ⓜ
J303	RJJ1D25Z	JACK, MIC(S8)
J304	RJJD7S2Z	JACK, HEADPHONES
J305 ⚠	RJJ1A3Y	JACK W/SW, AC IN(S12)

Ref. No.	Part No.	Description	
CABINET AND CHASSIS			
1	RUB565ZA	LEVER	M
2	RYEXCT900P	SHIELD PLATE ASS'Y	M
3	RMC1257ZA	SHIELD PLATE	M
4	XTV3+12G	SCREW	
5	XTV3+20G	SCREW	
6	RKK317YA-0	BATTERY COVER	M
7	RBC1399ZA-0	BUTTON, XBS	M
8	RBC1400ZA-0	BUTTON, SELECTOR	M
9	RBD567ZA-0	KNOB, G.EQ	M
10	RBN784ZA-0	KNOB, VOLUME	M
11	RBS261ZA-0	KNOB, SELECTOR	M
12	XTN2+4F	SCREW	
15	RJS5L3Z	SOCKET(5P)	
16	RJS6L3Z	SOCKET(6P)	
17	RJT707Z	CONTACT	
18	XEARR225DAY	TELESCOPIC ANTENNA	
19	RYFXCT950PP	REAR CABINET ASS'Y	M
19A	RHR3404ZB	STOPPER	M
19B	RHR3405ZA	STOPPER	M
19C	RYHXCT900P	HANDLE ASS'Y	M
19D	RJC931Z	BATTERY TERMINAL (+/-)	
19E	RJT1139ZA	ANT.TERMINAL	M
20	XYN3+F12FY	SCREW	
21	RUS781ZA	SPRING	M
22	RMD2072ZA	ANGLE	M
23	RDG5782YC	GEAR	M
24	XTV3+8G	SCREW	
25	RBC1401ZA-0	BUTTON, MECHANISM	M
26	EAS16P431A-G	SPEAKER	M
27	RYM1XCT900P	FRONT CABINET ASS'Y(SP)	M
27A	RYE1XCT900P	TWEETER ASS'Y	M
28	RYM2XCT900P	FRONT CABINET ASS'Y(SP)	M
28A	RYE1XCT900P	TWEETER ASS'Y	M
29	RJE297ZA	SPEAKER CORD	M
30	XTV3+8G	SCREW	
31	XTV3+20GFY	SCREW	
32	RHG2152ZA	BUSH	M
33	RKF971ZA-0	SP BOX (L)	M
34	RKF971YA-0	SP BOX (R)	M
35	RKE651ZA-0	HANGER	M
36	RJP3G18Z	CONNECTOR(3P)	
37	RJP3G4Y	CONNECTOR(3P)	
38	RJP4G18ZA	CONNECTOR(4P)	
40	SJT30643-V	TERMINAL	M
41	XYN3+F12FY	SCREW	
42	RMY265ZA	HEAT SHINK	M
43	⚠ RJF28Z	FUSE HOLDER	
44	RJP12G18ZA	CONNECTOR(12P)	
45	RJP5G4Y	CONNECTOR(5P)	
46	RJP6G4Y	CONNECTOR(6P)	
47	RUP2542WAC	P.C.B	M
48	RUL1135ZA	ANGLE	M
49	RJC511ZBS	BATTERY SPRING(-)	
50	RJC70032ZA	BATTERY TERMINAL	M
51	RMC1253ZA	SHIELD PLATE	M
52	RMC1256ZA	SHIELD PLATE	M
53	RJP8G17Z	PLUG (8P)	
54	RJS3L3Z	SOCKET(3P)	
55	RJS3L4Z	SOCKET(3P)	
56	RJS4L4Z	SOCKET(4P)	
57	RJS8L4ZA-X	SOCKET(8P)	
58	RJT807ZB-X	CONTACT	
59	RYMXCT950P	FRONT CABINET ASS'Y	M
60	RYQ1XCT950PP	CASSETTE LID ASS'Y	M
61	RYQ2XCT900P	CASSETTE LID ASS'Y	M
62	RHR3401ZA	SOUND ABSOBING MATERIAL	M
63	XTV3+8F	SCREW	
64	XNG3C	NUT	
65	WBB8CB-7K1M	FLAT CABLE(8P)	M
66	WBB6CB-8K1M	FLAT CABLE(6P)	
67	WBB4CB-7K1	FLAT CABLE(4P)	M
68	1JSACT900Z1	FLAT CABLE (5P)	M
69	1JSACT900Z2	FLAT CABLE (6P)	M
70	1JSACT900ZA3	REED WIRE	M
71	RUA878ZA	CHASSIS	M
72	XTN26+8B	SCREW	
73	XTV26+8G	SCREW	
74	RJS4L3Z	SOCKET(4P)	
75	RJP4G4Y	CONNECTOR(4P)	
76	RJS8T6ZA	SOCKET(8P)	M
77	RJS2L3Z	SOCKET(2P)	
78	RWEXCT950PP	MOTOR ASS'Y	M
79	RJP2G4Y	CONNECTOR(2P)	
80	RJP4G4Y	CONNECTOR(4P)	
81	RUA867ZA	CHASSIS	
82	RUD129ZA	SPRING	
83	RMB0017	SPRING	
84	RDG5953ZC	GEAR	
85	RDG5954ZA	GEAR	
86	XQN17+C3	SCREW	
87	RHR3402ZA	STOPPER	M
88	WBB3CB-10KK	FLAT CABLE	

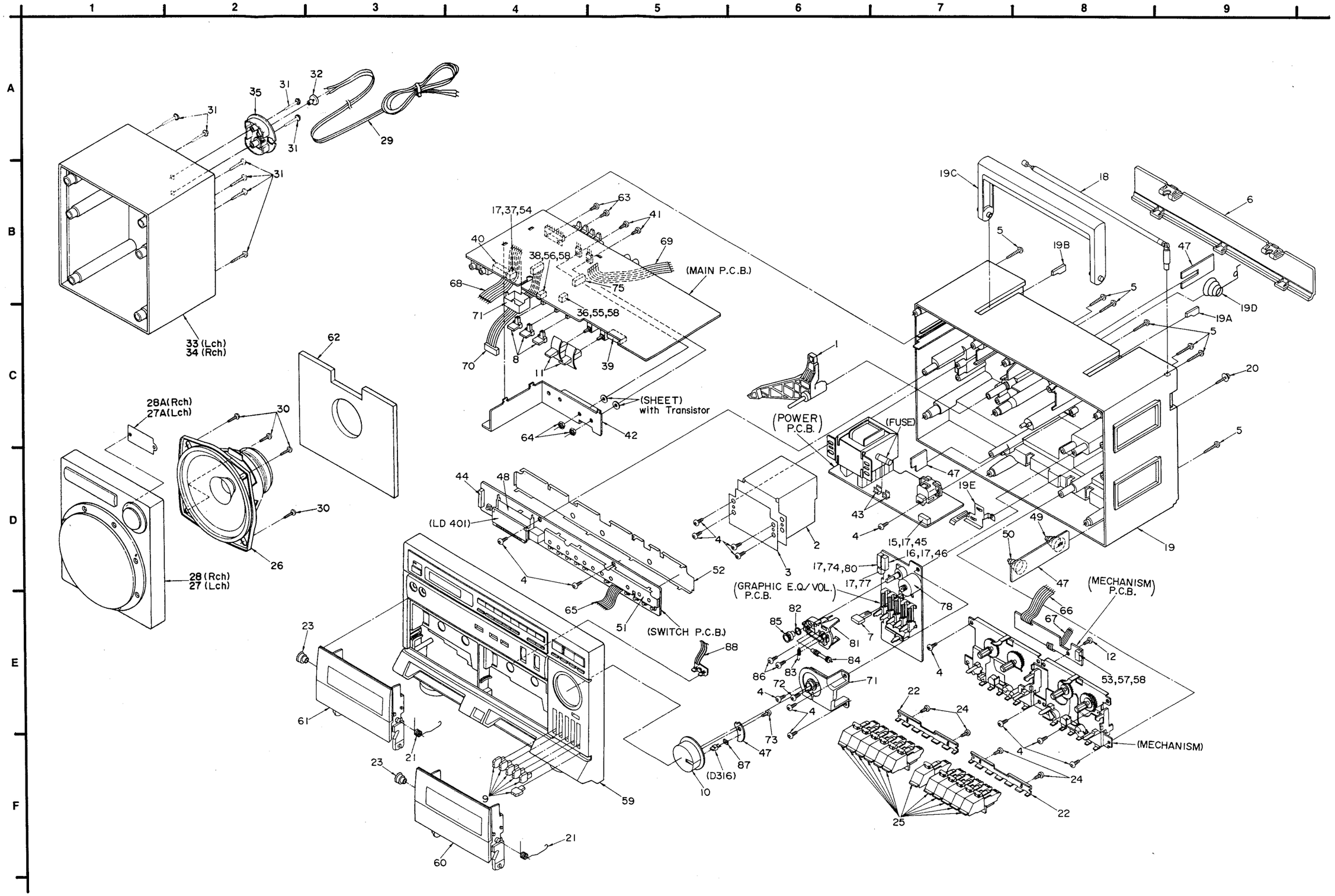
Ref. No.	Part No.	Description	
PACKING MATERIAL			
P1	RPH657ZA	SHEET	M
P2	RPN9588ZA	PAD	M
P3	RPK2818ZA	GIFT BOX	M

Ref. No.	Part No.	Description	
ACCESSORIES			
A1	⚠ RJA95Z	POWER CORD	
A2	RQX5226ZA	INST.MANUAL	M
A100	EUR64592	REMOTE CONTROLLER	M

CABINET PARTS LOCATION

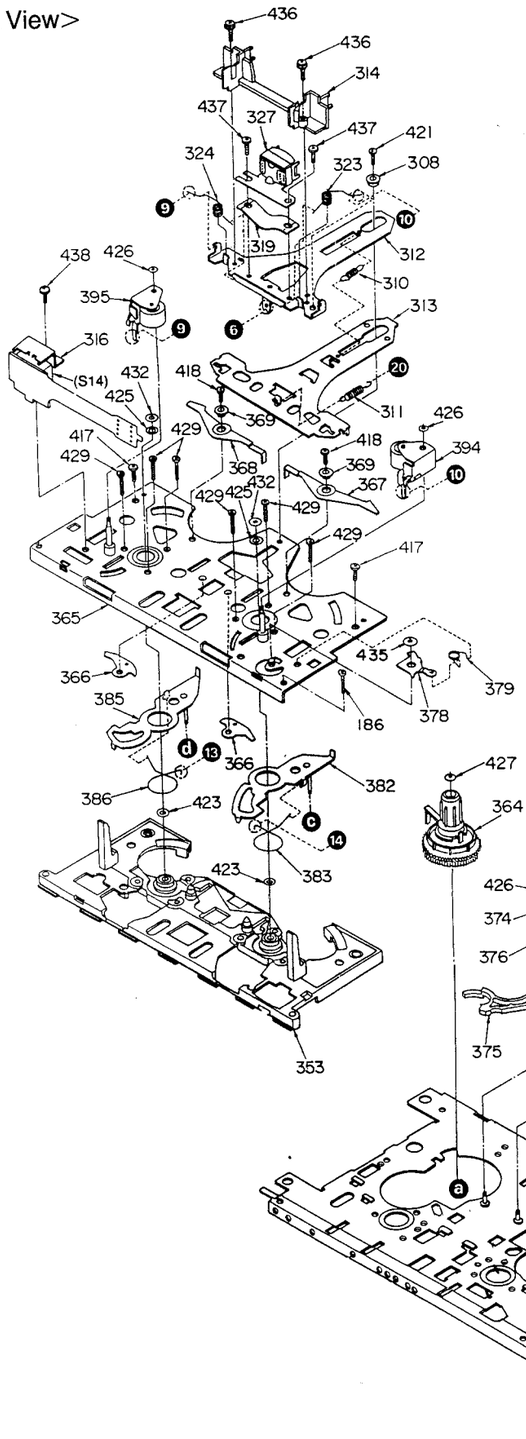


CABINET PARTS LOCATION



MECHANISM PARTS LOCATION • DECK 1 (for Playback and Auto Reverse)

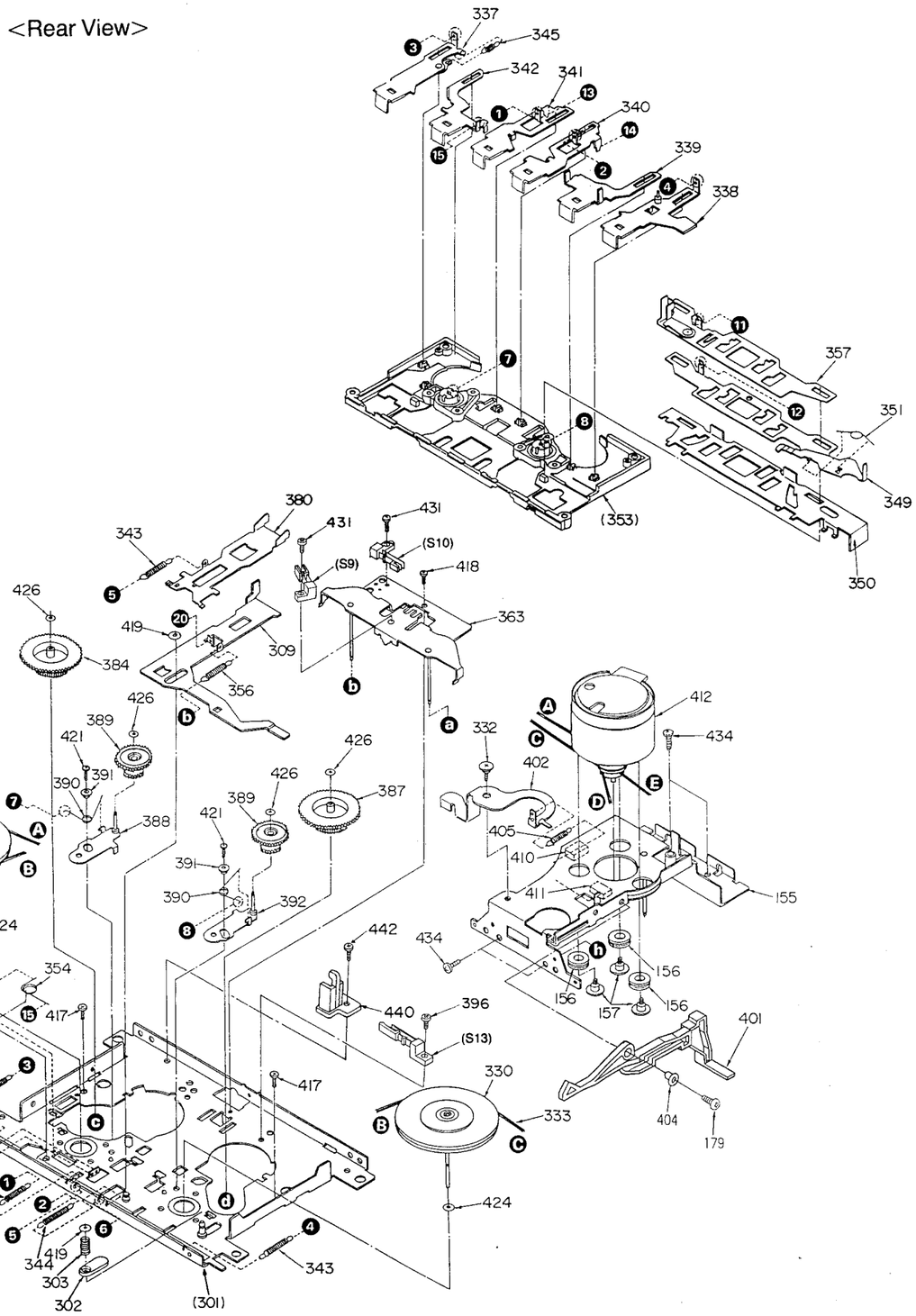
<Front View>



Specifications

Playback torque	22~55 g • cm
Fast Forward torque	55~130 g • cm
Rewind torque	55~130 g • cm
Pressure of pinch roller	240±50 g
Wow and flutter	Less than 0.22% (WRMS)

<Rear View>



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<DECK 1

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<DECK 1

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<DECK 2

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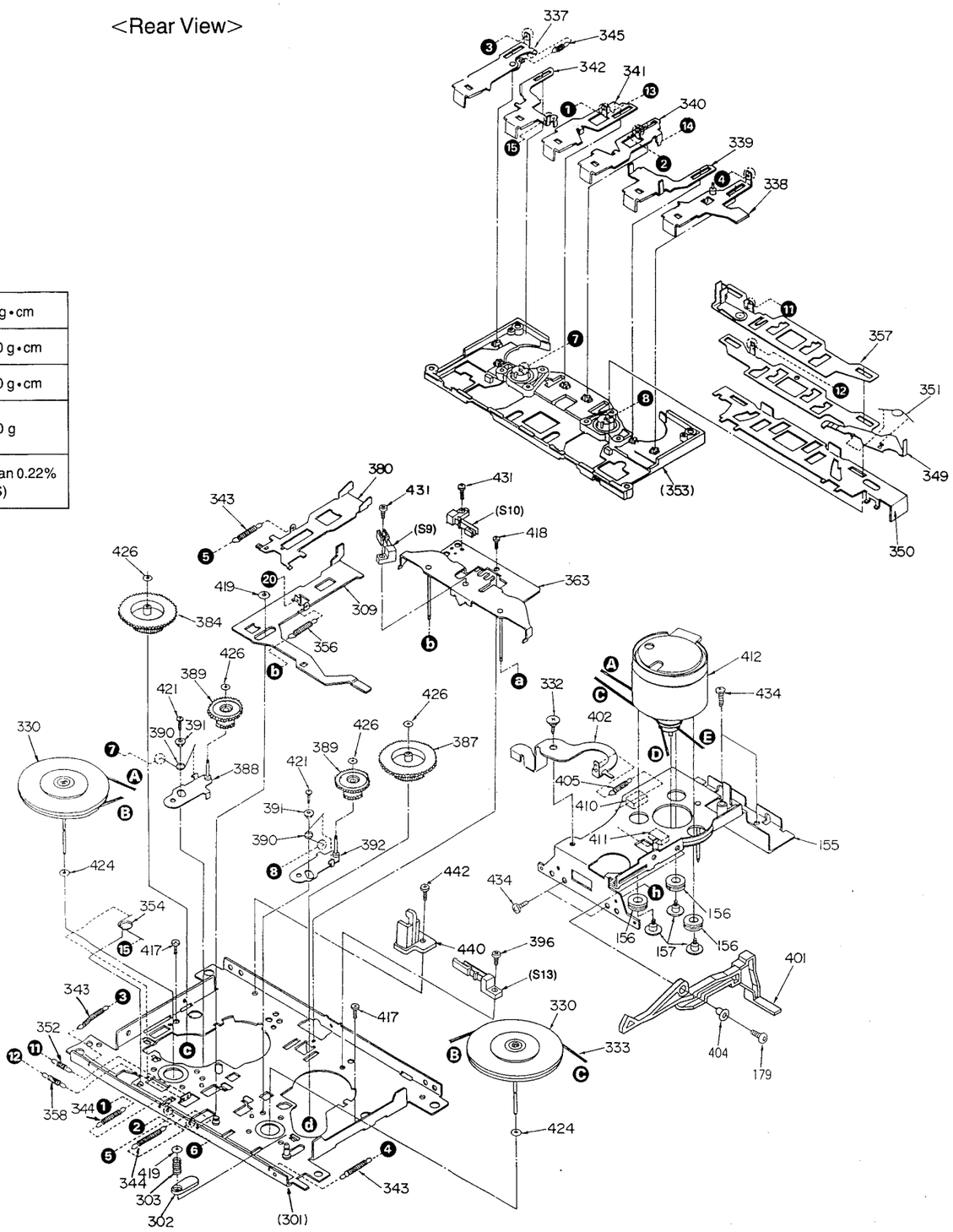
verse)

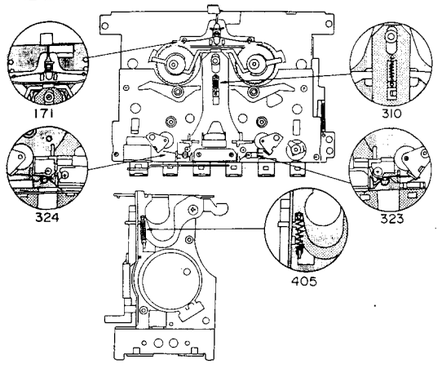
22~55 g•cm
55~130 g•cm
55~130 g•cm
240±50 g
Less than 0.22% (WRMS)

<Rear View>



■ SPRING LOCATION

<DECK 1>



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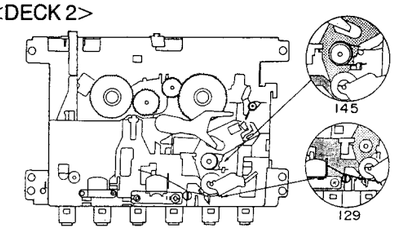
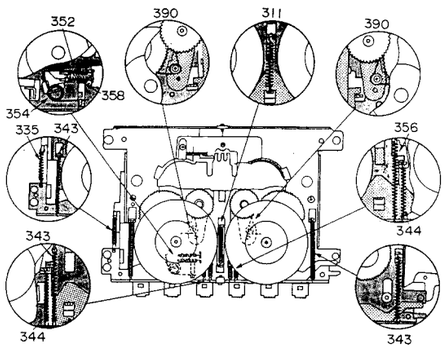
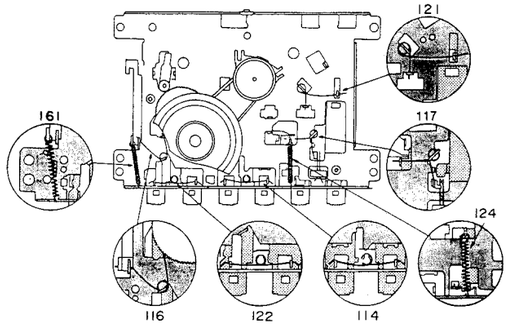


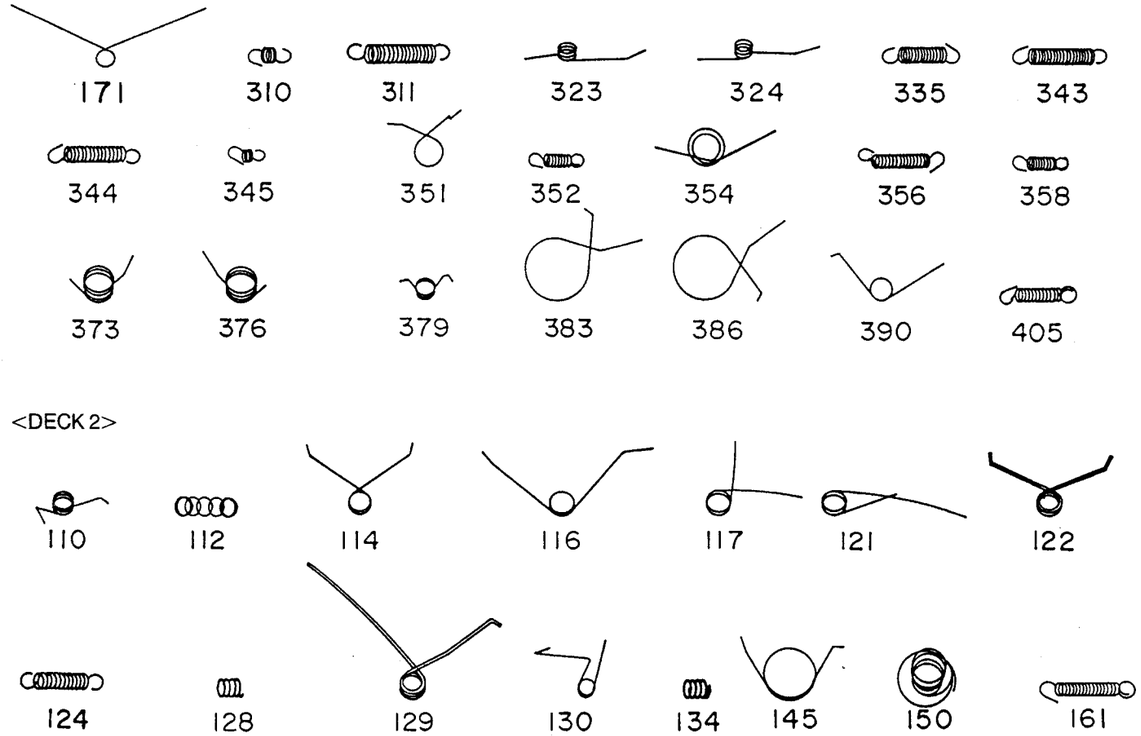




■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism).

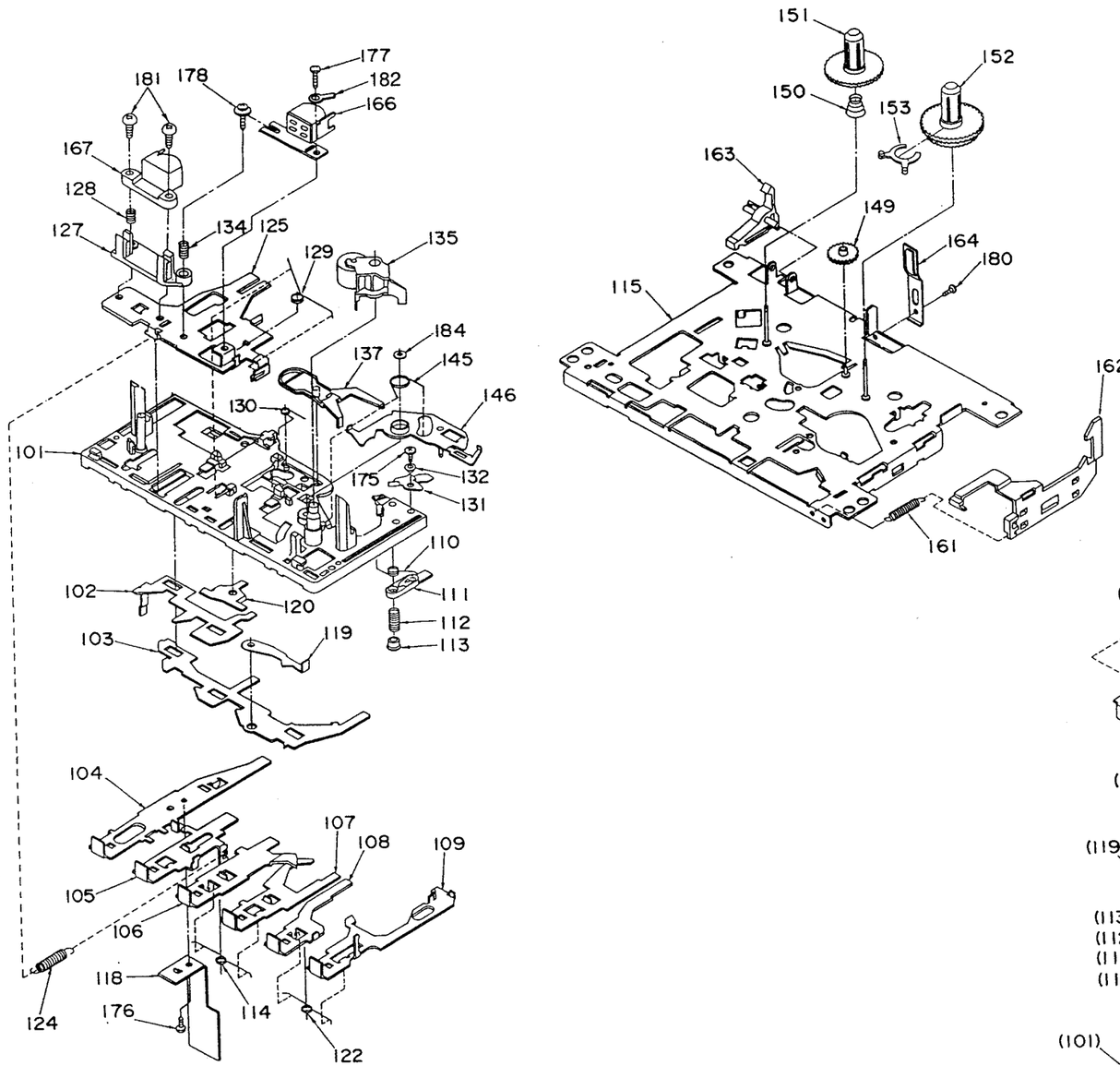
<DECK 1>



<DECK 2>

MECHANISM PARTS LOCATION • DECK 2 (for Playback and Recording)

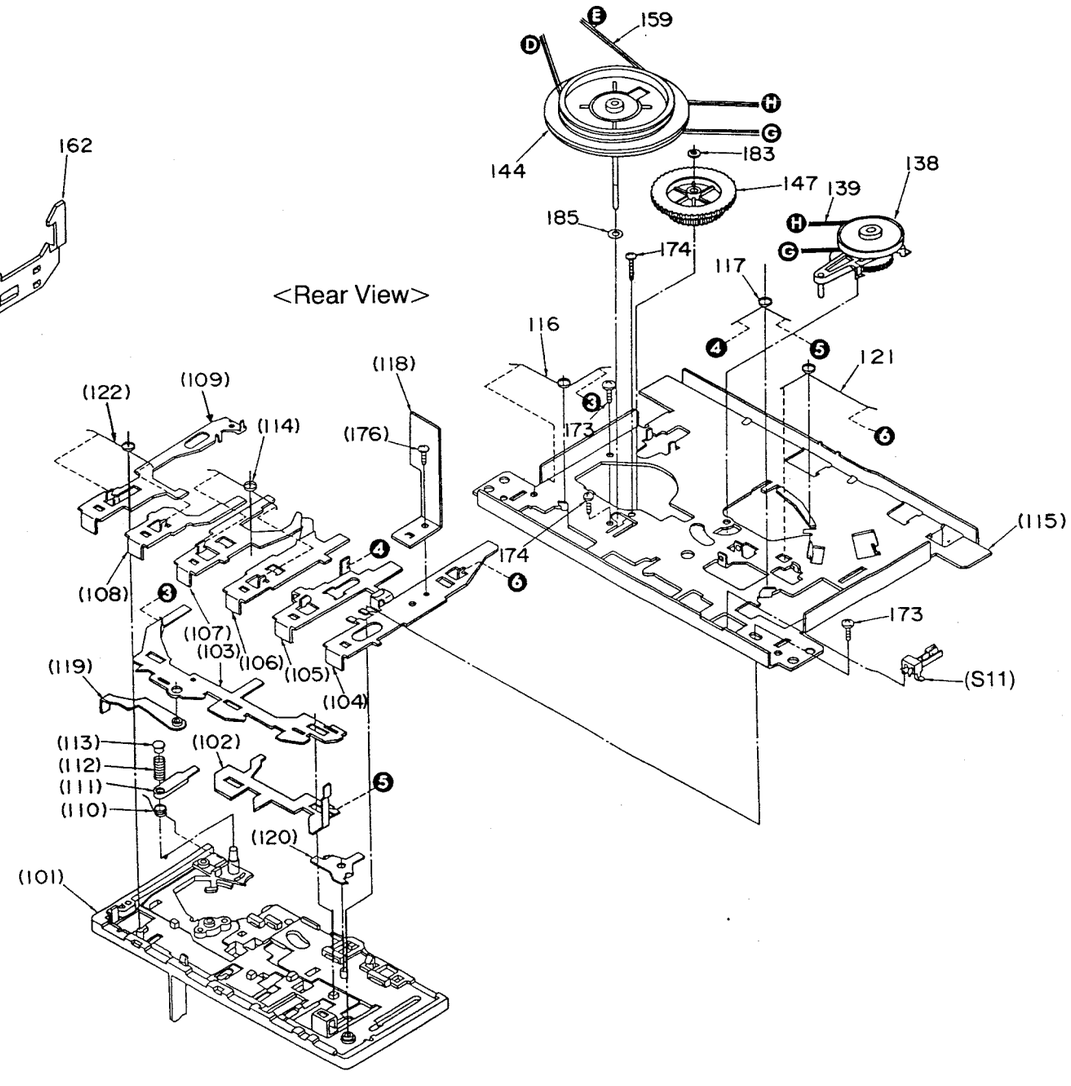
<Front View>



Specifications

Playback torque	22~55 g • cm
Fast Forward torque	55~130 g • cm
Rewind torque	55~130 g • cm
Pressure of pinch roller	300±50 g
Wow and flutter	Less than 0.22% (WRMS)

<Rear View>



Ref. No.	Part No.	Description	
MECHANISM			
CASSETTE DECK			
101	RFU178ZA	CHASSIS	
102	RFY866ZA	PLATE	
103	RFY867ZA	PLATE	
104	RFY868ZA	BUTTON LEVER	
105	RFY869ZA	BUTTON LEVER	
106	RFY870ZA	BUTTON LEVER	
107	RFY871ZA	BUTTON LEVER	
108	RFY925ZA	LEVER	M
109	RFY873ZA	BUTTON LEVER	
110	RFS837ZA	SPRING	
111	RFG139ZA	PAUSE CAM	
112	RFS813ZA	SPRING	
113	RFX174ZA	STOPPER	
114	RFS814ZA	SPRING	
115	RFU155ZA	CHASSIS ASS'Y	
116	RFS815ZA	SPRING	
117	RFS816ZA	SPRING	
118	RFE523ZA	REC SP PLATE	
119	RFY928ZA	LEVER	
120	RFX175ZA	STOPPER	
121	RFS835ZA	SPRING	
122	RFS818ZA	SPRING	
124	RFS530Z	SPRING	
125	RFU175ZA	HEAD PANEL	M
127	RFU167ZA	HEAD BASE	
128	RFS578Z	SPRING	
129	RFS819ZA	SPRING	
130	RFS820ZA	SPRING	
131	RFD396ZA	ARM	
132	RFY877ZA	COLLAR	
133	RFY913ZA	MG ARM	
134	RFS447Z	SPRING	
135	RFR58ZA	PINCHROLLER ASS'Y	
137	RFY884ZA	LEVER	
138	RFQ61ZA	CLUTCH ASS'Y	
139	RFB99ZA	RF BELT	
144	RFF69ZA	FLYWHEEL ASS'Y	
145	RFS822ZA	SPRING	
146	RFY874ZA	PLATE ASS'Y	
147	RFG136ZA	GEAR	
149	RFG110ZA	GEAR	
150	RFS838ZA	SPRING	
151	RFJ89ZA	REEL ASS'Y	M
152	RFJ90ZA	REEL ASS'Y	M
153	RFY875ZA	SENSER	
155	RFD387ZA	BRACKET	
156	RFI38Z	RUBBER	
157	RFE507ZA	SCREW	
159	RFB103ZA	BELT	
161	RFS826ZA	SPRING	
162	RFY876ZA	EJECT SLIDE LEVER	
163	RFY716Z	LEVER	
164	RFS467Z	SPRING	
166	RJH4C34GRAM	R/P HEAD	M
167	RJH7E5Z	ERASE HEAD	
170	RFY822ZA	PLATE	
171	RFS743ZA	SPRING	
173	RFE416ZA	SCREW	
174	RFE496ZA	SCREW	
175	RFE497ZA	SCREW	
176	RFE472ZA	SCREW	
177	RFE498ZA	SCREW	
178	RFE230Z	SCREW	
180	RFE472ZA	SCREW	
181	RFE241Z	SCREW	
182	RFE504ZA	TERMINAL	
183	RFN83Z	WASHER	
184	RFN214ZA	WASHER	
185	RFN122Z	WASHER	
186	RFE428ZA	SCREW	
301	RFU128ZA	CHASSIS ASS'Y	
302	RFY420Z	LEVER	
303	RFS459Z	SPRING	
304	RFS467Z	SPRING	
308	RFX163ZA	COLLAR	
309	RFY813ZA	PLATE	
310	RFS736ZA	SPRING	
311	RFS833ZA	SPRING	
312	RFY817ZA	HEAD PANEL	
313	RFY818ZA	PLATE	
314	RFE417ZA	GUIDE	
316	RFD334ZA	ANGLE	
319	RFS737ZA	SPRING	
323	RFS751ZA	SPRING	
324	RFS752ZA	SPRING	
327	1JH0037ZA	P.B HEAD	M
330	RFF56ZA	FLYWHEEL ASS'Y	
332	RFE239Z	SCREW	
333	RFB90ZA	BELT	
334	RFY888ZA	EJECT SLIDE LEVER	
335	RFS726ZA	SPRING	
337	RFY832ZA	LEVER	
338	RFY827ZA	LEVER	
339	RFY828ZA	LEVER	
340	RFY829ZA	LEVER	
341	RFY830ZA	LEVER	
342	RFY831ZA	LEVER	
343	RFS731ZA	SPRING	
344	RFS732ZA	SPRING	
345	RFS733ZA	SPRING	
349	RFY914ZA	LEVER	
350	RFY804ZA	PLATE	
351	RFS730ZA	SPRING	
352	RFS748ZA	SPRING	
353	RFU130ZA	CHASSIS ASS'Y	
354	RFS734ZA	SPRING	
356	RFS750ZA	SPRING	
357	RFY806ZA	PLATE	
358	RFS747ZA	SPRING	
363	RFU131ZA	PLATE ASS'Y	
364	RFJ87ZA	REEL TABLE	
365	RFU129ZA	SUB CHASSIS ASS'Y	
366	RFY823ZA	ARM	
367	RFY815ZA	ARM	
368	RFY816ZA	ARM	
369	RFX162ZA	COLLAR	
372	RFY798ZA	LEVER	
373	RFS724ZA	SPRING	
374	RFX161ZA	STOPPER	
375	RFY799ZA	LEVER	
376	RFS725ZA	SPRING	
378	RFY801ZA	ARM	
379	RFS727ZA	SPRING	
380	RFY814ZA	PLATE	
382	RFY802ZA	ARM ASS'Y	
383	RFS728ZA	SPRING	
384	RFG111ZA	GEAR	
385	RFY803ZA	ARM (R) ASS'Y	
386	RFS729ZA	SPRING	
387	RFG112ZA	GEAR	
388	RFY819ZA	ARM ASS'Y	
389	RFG113ZA	GEAR	
390	RFS740ZA	SPRING	
391	RFX164ZA	COLLAR	
392	RFY820ZA	ARM ASS'Y	
394	RFR46ZA	PINCHROLLER ASS'Y	
395	RFR47ZA	PINCHROLLER ASS'Y	
396	RFE418ZA	SCREW	
401	RFY582Z	LEVER	
402	RFY821ZA	LEVER	
404	RFE419ZA	SCREW	
405	RFS741ZA	SPRING	
410	RFI50ZA	CUSHION	
411	RFI57ZA	CUSHION	
412	RFM172ZA	MOTOR ASS'Y	M
415	RFE420ZA	SCREW	
417	RFE222Z	SCREW	
418	RFE426ZA	SCREW	
419	RFN134Z	WASHER	
421	RFE423ZA	SCREW	
423	RFN122Z	WASHER	

■ REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	
424	RFN136Z	WASHER	432	RFN216ZA	WASHER	
425	RFN182ZA	WASHER	434	RFE425ZA	SCREW	
426	RFN133Z	WASHER	436	RFE422ZA	SCREW	
427	RFN139Z	WASHER	437	RFE431ZA	SCREW	
428	RFN183ZA	WASHER	438	RFE421ZA	SCREW	
429	RFE427ZA	SCREW	440	RUE83ZA	HOLDER	M
431	RFE473ZA	SCREW	442	XTN2+4F	SCREW	

■ RESISTORS & CAPACITORS

Notes : * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.

Numbering System For Resistors

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1KΩ)
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470Ω)

Numbering System For Capacitors

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001μF)	Tolerance	Unique
ECEA	50	M		330
Type	Voltage (50V)	Characteristics		Value (33μF)

● Capacity values are in microfarads (μF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F).
● Resistance values are in ohms (Ω), unless specified otherwise, 1K = 1,000Ω, 1M = 1,000kΩ

Resistor Type		Wattage		Tolerance
ERD	: Carbon	10 : 1/8W	12 : 1/2W	J : ±5%
ERG	: Metal Oxide	14 : 1/4W	25 : 1/4W	F : ±1%
ERQ	: Fuse Type Metal	1A : 1W	18 : 1/8W	G : ±2%
ERX	: Metal Film	S2 : 1/4W	S1 : 1/2W	J : ±5%
ERD L	: Carbon (chip)	2F : 1/4W	50 : 1/2W	K : ±10%
ERO K	: Metal Film (chip)	2A : 2W	3A : 3W	M : ±20%
ERC	: Solid	6G : 1/10W	8G : 1/8W	
ERF	: Incombustible Box-Shaped			
ERM	: Wire-Wound			
RRJ	: Chip Resistor			
ERJ	: Chip Resistor			

Capacitor Type		Voltage		Tolerance
ECE	: Electrolytic	0J : 6.3V	1A : 10V	K : ±10%
ECCD	: Ceramic	1C : 16V	1E : 25V	M : ±20%
ECKD	: Ceramic Capacitor	1H : 50V	1V : 35V	Z : +80 % −20
ECQM	: Polyester	50 : 50V	05 : 50V	J : ±5%
ECQP	: Polypropylene	2H : 500V	2A : 100V	G : ±2%
ECG	: Ceramic	1 : 100V	1J : 63V	F : ±1%
ECEA N	: Non Polar Electrolytic	KC : 400V AC		C : ±0.25pF
QCU	: Ceramic (Chip Type)	KC : 125V AC (UL)		D : ±0.5pF
ECUX	: Ceramic (Chip Type)			
ECF	: Semiconductor			
EECW	: Liquid electrolyte double layer capacitor			

Ref. No.	Part No.	Value.
RESISTORS(VALUE,WATTAGE)		
R1	ERDS2TJ473	47K 1/4
R2	ERDS2TJ222	2.2K 1/4
R3	ERDS2TJ472	4.7K 1/4
R9	ERDS2TJ103	10K 1/4
R10	ERDS2TJ331	330 1/4
R13	ERDS2TJ101	100 1/4
R20	ERDS2TJ104	100K 1/4
R21	ERDS2TJ104	100K 1/4
R22	ERDS2TJ104	100K 1/4
R23	ERDS2TJ104	100K 1/4
R24	ERDS2TJ472	4.7K 1/4
R25	ERDS2TJ470	47 1/4
R26	ERDS2TJ103	10K 1/4
R27	ERDS2TJ470	47 1/4
R28	ERDS2TJ104	100K 1/4
R29	ERDS2TJ101	100 1/4
R33	ERDS2TJ104	100K 1/4
R39	ERDS2TJ104	100K 1/4
R49	ERDS2TJ103	10K 1/4
R50	ERDS2TJ473	47K 1/4
R51	ERDS2TJ151	150 1/4
R53	ERDS2TJ473	47K 1/4
R54	ERDS2TJ222	2.2K 1/4
R55	ERDS2TJ682	6.8K 1/4
R56	ERDS2TJ103	10K 1/4
R57	ERDS2TJ104	100K 1/4
R58	ERDS2TJ473	47K 1/4
R59	ERDS2TJ101	100 1/4
R60	ERDS2TJ183	18K 1/4
R61	ERDS2TJ473	47K 1/4
R62	ERDS2TJ472	4.7K 1/4
R63	ERDS2TJ473	47K 1/4
R64	ERDS2TJ104	100K 1/4
R65	ERDS2TJ471	470 1/4
R66	ERDS2TJ221	220 1/4
R67	ERDS2TJ104	100K 1/4
R68	ERDS2TJ332	3.3K 1/4
R69	ERDS2TJ102	1K 1/4
R70	ERDS2TJ102	1K 1/4
R71	ERDS2TJ683	68K 1/4
R72	ERDS2TJ822	8.2K 1/4
R73	ERDS2TJ472	4.7K 1/4
R74	ERDS2TJ473	47K 1/4
R75	ERDS2TJ102	1K 1/4
R76	ERDS2TJ103	10K 1/4
R77	ERDS2TJ472	4.7K 1/4
R78	ERDS2TJ104	100K 1/4
R79	ERDS2TJ221	220 1/4
R80	ERDS2TJ471	470 1/4
R92	ERDS2TJ471	470 1/4
R93	ERDS2TJ222	2.2K 1/4
R94	ERDS2TJ333	33K 1/4
R101	ERDS2TJ473	47K 1/4
R102	ERDS2TJ152	1.5K 1/4
R103	ERDS2TJ100	10 1/4
R104	ERDS2TJ153	15K 1/4
R110	ERDS2TJ821	820 1/4
R111	ERDS2TJ332	3.3K 1/4
R112	ERDS2TJ104	100K 1/4
R113	ERDS2TJ330	33 1/4
R114	ERDS2TJ470	47 1/4
R115	ERDS2TJ222	2.2K 1/4
R116	ERDS2TJ103	10K 1/4
R117	ERDS2TJ472	4.7K 1/4
R119	ERDS2TJ222	2.2K 1/4
R120	ERDS2TJ103	10K 1/4
R130	ERDS2TJ223	22K 1/4
R131	ERDS2TJ272	2.7K 1/4
R132	ERDS2TJ103	10K 1/4
R133	ERDS2TJ105	1M 1/4
R134	ERDS2TJ471	470 1/4
R135	ERDS2TJ222	2.2K 1/4
R136	ERDS2TJ680	68 1/4
R137	ERDS2TJ223	22K 1/4
R138	ERDS2TJ103	10K 1/4
R139	ERDS2TJ102	1K 1/4
R140	ERDS2TJ332	3.3K 1/4
R141	ERDS2TJ473	47K 1/4
R142	ERDS2TJ224	220K 1/4
R151	ERDS2TJ152	1.5K 1/4
R152	ERDS2TJ472	4.7K 1/4
R160	ERDS2TJ563	56K 1/4
R161	ERDS2TJ103	10K 1/4
R162	ERDS2TJ472	4.7K 1/4
R163	ERDS2TJ154	150K 1/4
R164	ERDS2TJ103	10K 1/4
R165	ERDS2TJ223	22K 1/4
R166	ERDS2TJ224	220K 1/4
R167	ERDS2TJ472	4.7K 1/4
R168	ERDS2TJ472	4.7K 1/4
R169	ERDS2TJ103	10K 1/4
R170	ERDS2TJ471	470 1/4
R172	ERDS2TJ222	2.2K 1/4
R173	ERDS2TJ104	100K 1/4
R180	ERDS2TJ2R2	2.2 1/4
R181	ERDS2TJ151	150 1/4
R183	ERDS2TJ223	22K 1/4
R191	ERDS2TJ103	10K 1/4
R192	ERDS2TJ153	15K 1/4
R193	ERDS2TJ332	3.3K 1/4
R194	ERDS2TJ222	2.2K 1/4
R201	ERDS2TJ473	47K 1/4
R202	ERDS2TJ152	1.5K 1/4
R203	ERDS2TJ100	10 1/4
R204	ERDS2TJ153	15K 1/4
R210	ERDS2TJ821	820 1/4
R211	ERDS2TJ332	3.3K 1/4
R212	ERDS2TJ104	100K 1/4
R213	ERDS2TJ330	33 1/4
R214	ERDS2TJ470	47 1/4
R215	ERDS2TJ222	2.2K 1/4
R216	ERDS2TJ103	10K 1/4
R217	ERDS2TJ472	4.7K 1/4
R219	ERDS2TJ222	2.2K 1/4
R220	ERDS2TJ103	10K 1/4
R230	ERDS2TJ223	22K 1/4
R231	ERDS2TJ272	2.7K 1/4
R232	ERDS2TJ103	10K 1/4
R233	ERDS2TJ105	1M 1/4
R234	ERDS2TJ471	470 1/4
R235	ERDS2TJ222	2.2K 1/4
R236	ERDS2TJ680	68 1/4
R237	ERDS2TJ223	22K 1/4
R238	ERDS2TJ103	10K 1/4

Ref. No.	Part No.	Value.
R239	ERDS2TJ102	1K 1/4
R240	ERDS2TJ332	3.3K 1/4
R241	ERDS2TJ473	47K 1/4
R242	ERDS2TJ224	220K 1/4
R251	ERDS2TJ152	1.5K 1/4
R252	ERDS2TJ472	4.7K 1/4
R260	ERDS2TJ563	56K 1/4
R261	ERDS2TJ103	10K 1/4
R262	ERDS2TJ472	4.7K 1/4
R263	ERDS2TJ154	150K 1/4
R264	ERDS2TJ103	10K 1/4
R265	ERDS2TJ223	22K 1/4
R266	ERDS2TJ224	220K 1/4
R267	ERDS2TJ472	4.7K 1/4
R268	ERDS2TJ472	4.7K 1/4
R269	ERDS2TJ103	10K 1/4
R270	ERDS2TJ471	470 1/4
R272	ERDS2TJ222	2.2K 1/4
R273	ERDS2TJ104	100K 1/4
R280	ERDS2TJ2R2	2.2 1/4
R281	ERDS2TJ151	150 1/4
R283	ERDS2TJ223	22K 1/4
R291	ERDS2TJ103	10K 1/4
R292	ERDS2TJ153	15K 1/4
R293	ERDS2TJ332	3.3K 1/4
R294	ERDS2TJ222	2.2K 1/4
R300	ERDS2TJ563	56K 1/4
R301	ERDS2TJ1R0	1 1/4
R303	ERDS2TJ472	4.7K 1/4
R304	ERDS2TJ1R0	1 1/4
R305	ERDS2TJ105	1M 1/4
R306	ERDS2TJ332	3.3K 1/4
R307	ERDS2TJ470	47 1/4
R308	ERDS2TJ103	10K 1/4
R309	ERDS2TJ105	1M 1/4
R310	ERDS2TJ102	1K 1/4
R311	ERDS2TJ152	1.5K 1/4
R312	ERDS2TJ102	1K 1/4
R313	ERDS2TJ4R7	4.7 1/4
R314	ERDS2TJ104	100K 1/4
R315	ERDS2TJ224	220K 1/4
R316	ERDS2TJ471	470 1/4
R317	ERDS2TJ222	2.2K 1/4
R318	ERDS2TJ392	3.9K 1/4
R319	ERDS2TJ102	1K 1/4
R321	ERDS2TJ472	4.7K 1/4
R322	ERDS2TJ103	10K 1/4
R323	ERDS2TJ223	22K 1/4
R324	ERDS2TJ103	10K 1/4
R325	ERDS2TJ104	100K 1/4
R326	ERDS2TJ333	33K 1/4
R327	ERDS2TJ472	4.7K 1/4
R328	ERDS2TJ333	33K 1/4
R329	ERDS2TJ333	33K 1/4
R330	ERDS2TJ333	33K 1/4
R331	ERDS2TJ473	47K 1/4
R332	ERDS2TJ473	47K 1/4
R333	ERDS2TJ221	220 1/4
R334	ERDS2TJ472	4.7K 1/4
R335	ERDS2TJ472	4.7K 1/4
R336	ERDS2TJ103	10K 1/4
R337	ERDS2TJ473	47K 1/4
R338	ERDS2TJ103	10K 1/4
R343	ERDS2TJ103	10K 1/4
R344	ERDS2TJ103	10K 1/4
R345	ERDS2TJ332	3.3K 1/4
R346	ERDS2TJ106T	1/4
R347	ERDS2TJ103	10K 1/4
R348	ERDS2TJ151	150 1/4
R349	ERDS2TJ473	47K 1/4
R350	ERDS2TJ473	47K 1/4
R351	ERDS2TJ473	47K 1/4
R352	ERDS2TJ222	2.2K 1/4
R353	ERDS2TJ473	47K 1/4
R354	ERDS2TJ100	10 1/4
R355	ERDS2TJ222	2.2K 1/4
R356	ERDS2TJ223	22K 1/4
R357	ERDS2TJ223	22K 1/4
R359	ERDS2TJ101	100 1/4
R361	ERDS2TJ102	1K 1/4
R363	ERDS2TJ472	4.7K 1/4
R364	ERDS2TJ223	22K 1/4
R365	ERDS2TJ472	4.7K 1/4
R367	ERDS2TJ473	47K 1/4
R368	ERDS2TJ102	1K 1/4
R369	ERDS2TJ1R8	1.8 1/4
R370	ERDS2TJ331	330 1/4
R371	ERDS2TJ151	150 1/4
R374	ERDS2TJ222	2.2K 1/4
R375	ERDS2TJ152	1.5K 1/4
R376	ERDS2TJ152	1.5K 1/4
R377	ERDS2TJ473	47K 1/4
R402	ERDS2TJ334	330K 1/4
R403	ERDS2TJ102	1K 1/4
R404	ERDS2TJ102	1K 1/4
R405	ERDS2TJ102	1K 1/4
R406	ERDS2TJ102	1K 1/4
R407	ERDS2TJ331	330 1/4
R408	ERDS2TJ154	150K 1/4
R409	ERDS2TJ104	100K 1/4
R410	ERDS2TJ331	330 1/4
R501	ERDS2TJ105	1M 1/4
R503	ERDS2TJ682	6.8K 1/4
R504	ERDS2TJ1R0	1 1/4
R505	ERDS2TJ102	1K 1/4
R510	ERDS2TJ271	270 1/4
R511	ERDS2TJ271	270 1/4
R512	ERDS2TJ681	680 1/4
R513	ERDS2TJ153	15K 1/4
R514	ERDS2TJ153	15K 1/4
CAPACITORS(VALUE,VOLTAGE)		
C1	ECQV1H474JZ3	0.47 50
C2	RCBS1H102KB	0.001 50
C3	RCBS1H102KB	0.001 50
C6	RCBS1H150JC	15P 50
C7	RCBS1H150JC	15P 50
C8	RCBS1C103MYY	0.01 16
C10	ECKD1H103ZF	0.01 50
C11	RCBS1H102KB	0.001 50
C13	RCBS1C103MYY	0.01 16
C14	ECQV1H105JZ3	1 50
C22	RCBS1H102KB	0.001 50
C24	RCBS1H220JL	22P 50
C25	RCBS1H102KB	0.001 50
C26	RCBC1H4R7KC	4.7P 50
C27	RCBS1H102KB	0.001 50
C28	RCBS1H102KB	0.001 50
C29	RCBS1H220JL	22P 50
C30	RCBS1H100JC	10P 50
C31	RCBS1H102KB	0.001 50
C32	RCBC1H4R7KC	4.7P 50
C34	RCBS1H102KB	0.001 50
C35	ECCT1H100KC	10P 50
C41	RCBC1H330JL	33P 50
C42	ECQP2A391JZ	390P 100
C49	RCBS1C103MYY	0.01 16
C52	RCBS1H6R8KC	6.8P 50
C59	RCBS1H220JL	22P 50
C60	ECFT1C223MD	0.022 16
C62	RCBS1C103MYY	0.01 16
C63	ECFT1C223MD	0.022 16
C64	ECFT1C223MD	0.022 16
C65	ECEA1CU100	10 16
C66	ECEA1CU100	10 16
C67	ECQV1H474JZ3	0.47 50
C68	ECEA1EU3R3B	3.3 25
C69	ECFW1C473MDY	0.047 16
C70	RCBS1C103MYY	0.01 16
C71	ECEA1EU3R3B	3.3 25
C72	RCBC1H331KB	330P 50
C73	ECFT1C223MD	0.022 16
C74	RCBS1C103MYY	0.01 16
C75	ECEA1HU2R2	2.2 50
C76	RCBS1H102KB	0.001 50
C77	ECEA1AU101	100 10
C78	ECEA1HU2R2	2.2 50
C79	ECEA1HU2R2	2.2 50
C80	RCBS1C103MYY	0.01 16
C81	ECEA50ZR47E	0.47 50
C82	ECEA1HUR33	0.33 50
C83	ECEA1HK010B	1 50
C84	ECQP2A102JZT	0.001 100
C85	ECEA1CU100	10 16
C86	RCBS1C103MYY	0.01 16
C87	RCBS1C103MYY	0.01 16
C88	RCBS1C103MYY	0.01 16
C89	RCBS1C103MYY	0.01 16
C91	ECFT1C223MD	0.022 16
C92	RCBC1H331KB	330P 50
C93	ECFV1E473MD	0.047 25
C94	ECEA1HU010	1 50
C95	RCBS1H220JL	22P 50
C97	ECEA1CU100	10 16
C98	ECEA1HU010	1 50
C99	RCBS1H102KB	0.001 50
C101	RCBS1H471KB	470P 50
C102	RCBC1H681KBY	680P 50
C103	RCBC1C182MX	0.0018 16
C104	RCBS1C122MX	0.0012 16
C105	ECEA1HU010	1 50
C110	ECFT1C333MD	0.033 16
C111	ECEA0JU221	220 6.3
C112	ECEA1CU100	10 16
C113	ECFV1E683MD	0.068 25
C120	ECEA1HU010	1 50
C121	RCBS1H101KB	100P 50
C122	ECEA1EU4R7	10 50
C123	RCBS1H102KB	0.001 50
C124	ECQV1H224JZ	0.22 50
C125	RCBS1H102KB	0.001 50
C126	RCBS1C392MX	0.0039 16
C127	RCBS1C472MX	0.0047 16
C128	ECFT1C103KD	0.01 16
C129	ECBA1H221KBY	220P 50
C130	ECEA1CU100	10 16
C131	ECEA1HU010	1 50
C135	ECEA1HU0R1	0.1 50
C136	ECQV1H684JZ3	0.68 50
C137	ECEA1HU010	1 50
C138	ECEA1EU4R7	10 50
C145	ECEA1HU010	1 50
C146	ECEA1HU010	1 50
C147	RCBS1H471KB	470P 50
C148	ECEA1CU100	10 16
C151	RCBS1H102KB	0.001 50
C152	RCBC1C332MXY	0.0033 16
C153	ECFV1C104MD	0.1 16
C154	RCBS1C103MYY	0.01 16
C155	RCBS1C103MYY	0.01 16
C158	ECEA1HU010E	1 50
C159	ECEA1HUR22	0.22 50
C160	ECFT1C333MD	0.033 16
C161	ECEA1HUR33	0.33 50
C162	RCBS1C152MX	0.0015 16
C165	ECEA1HU2R2	2.2 50
C166	ECEA1HUR33	0.33 50
C167	ECEA1HU0R1	0.1 50
C168	ECFT1C333MD	0.033 16
C169	ECFT1C153MD	0.015 16
C180	ECEA1HUR33	0.33 50
C181	ECEA1EU101	100 25
C182	ECEA1CS222	2200 16
C183	ECEA0JU101B	100 6.3
C184	RCBS1H471KB	470P 50
C185	ECQV1H224JZ	0.22 50
C191	ECFT1C682MDY	0.0068 16
C192	RCBC1H681KBY	680P 50
C193	ECEA1HU010	1 50
C194	RCBS0J153MYY	0.015 6.3
C201	RCBS1H471KB	470P 50

Ref. No.	Part No.	Value.
C202	RCBC1H681KBY	680P 50
C203	RCBC1C182MX	0.0018 16
C204	RCBS1C122MX	0.0012 16
C205	ECEA1HU010	1 50
C210	ECFT1C333MD	0.033 16
C211	ECEA0JU221	220 6.3
C212	ECEA1CU100	10 16
C213	ECFV1E683MD	0.068 25
C220	ECEA1HU010	1 50
C221	RCBS1H101KB	100P 50
C222	ECEA1EU4R7	10 50
C223	RCBS1H102KB	0.001 50
C224	ECQV1H224JZ	0.22 50
C225	RCBS1H102KB	0.001 50
C226	RCBS1C392MX	0.0039 16
C227	RCBS1C472MX	0.0047 16
C228	ECFT1C103KD	0.01 16
C229	ECBA1H221KBY	220P 50
C230	ECEA1CU100	10 16
C231	ECEA1HU010	1 50
C235	ECEA1HU0R1	0.1 50
C236	ECQV1H684JZ3	0.68 50
C237	ECEA1HU010	1 50
C238	ECEA1EU4R7	10 50
C245	ECEA1HU010	1 50
C246	ECEA1HU010	1 50
C247	RCBS1H471KB	470P 50
C248	ECEA1CU100	10 16
C251	RCBS1H102KB	0.001 50
C252	RCBC1C332MXY	0.0033 16
C253	ECFV1C104MD	0.1 16
C254	RCBS1C103MYY	0.01 16
C255	RCBS1C103MYY	0.01 16
C258	ECEA1HU010E	1 50
C259	ECEA1HUR22	0.22 50
C260	ECFT1C333MD	0.033 16
C261	ECEA1HUR33	0.33 50
C262	RCBS1C152MX	0.0015 16
C265	ECEA1HU2R2	2.2 50
C266	ECEA1HUR33	0.33 50
C267	ECEA1HU0R1	0.1 50
C268	ECFT1C333MD	0.033 16
C269	ECFT1C153MD	0.015 16
C280	ECEA1HUR33	0.33 50
C281	ECEA1EU101	100 25
C282	ECEA1CS222	2200 16
C283	ECEA0JU101B	100 6.3
C284	RCBS1H471KB	470P 50
C285	ECQV1H224JZ	0.22 50
C291	ECFT1C682MDY	0.0068 16
C292	RCBC1H681KBY	680P 50
C293	ECEA1HU010	1 50
C294	RCBS0J153MYY	0.015 6.3
C300	RCBS1C103MYY	0.01 16
C303	RCBS1C103MYY	0.01 16
C304	ECQP2A561JZ	560P 100
C305	ECQP1822JZ	0.0082 100
C306	ECEA1AU101	100 10
C307	ECFT1C223MD	0.022 16
C308	ECEA1HU0R1	0.1 50
C309	ECEA1AU221	220 10
C310	RCBS1C103MYY	0.01 16
C312	RCBC1C332MXY	0.0033 16
C313	ECFT1C223MD	0.022 16
C314	ECEA1HU0R1	0.1 50
C315	RCBS1C103MYY	0.01 16
C316	ECEA1CU100	10 16
C317	ECEA1HU010	1 50
C319	ECFT1C223MD	0.022 16
C320	ECEA1AU330	33 10
C321	ECEA1AU221	220 10
C322	ECEA1AU470	47 10
C324	ECEA1CU100	10 16
C325	ECFV1E473MD	0.047 25
C326	ECEA0JU330	33 6.3
C328	ECEA0JU470	47 6.3
C329	ECEA0JU101B	100 6.3
C330	ECEA1AU221	220 10
C331	ECEA1AU101	100 10
C332	ECEA1CU100	10 16
C333	ECEA1AU471	470 10
C334	ECEA1AU101	100 10
C335	RCBS1C103MYY	0.01 16
C336	RCBS1C103MYY	0.01 16
C338	RCBS1H102KB	0.001 50
C339	ECEA1CU100	10 16
C341	ECEA1EU470B	47 25
C344	ECEA1CU100	10 16
C347	RCBS1H102KB	0.001 50
C349	ECEA1CU100	10 16
C350	ECEA1AU471	470 10
C351	ECEA1AU330	33 10
C352	ECEA1EU101	100 25
C353	ECEA1CU470	47 16
C354	ECEA1EU472	4700 25
C355	ECKT1H473ZF	0.047 50
C356	ECKT1H473ZF	0.047 50
C357	ECKT1H473ZF	0.047 50
C358	ECKT1H473ZF	0.047 50
C363	ECEA50ZR47E	0.47 50
C366	RCBS1H102KB	0.001 50
C367	ECKF1H102KB	0.001 50
C368	ECKD1H103ZF	0.01 50
C369	ECKV1H102KB	0.001 50
C402	RCBS1C103MYY	0.01 16
C403	RCBS1H102KB	0.001 50
C404	RCBS1H102KB	0.001 50
C405	RCBS1H102KB	0.001 50
C406	RCBS1H102KB	0.001 50
C407	RCBS1H102KB	0.001 50
C408	RCBS1H102KB	0.001 50
C409	RCBS1H270JL	27P 50
C410	RCBC1H4R7KC	4.7P 50
C411	ECEA1CK100B	10 16
C412	ECQV1H104JZW	0.1 50
C413	RCBC1H331KB	330P 50
C414	RCBS1H102KB	0.001 50
C415	ECEA1CK100B	10 16
C416	RCBC1H331KB	330P 50
C417	ECCD1H331K	330P 50
C418	RCBS1H102KB	0.001 50
C419	ECQV1H474JZ3	0.47 50
C420	ECKF1H102KB	0.001 50
C501	ECEA1CU330	33 16
C510	ECEA1EU101	100 25

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Parts Change Notice

Model No. RX-CT950 (PP), (PX), (GC)

Please revise the original parts list in the Service Manual to conform to the change (s) shown below. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change *The circled item indicates the reason. If no marking, see the Notes in the bottom column.

1.	Improve performance
2.	Change of material or dimension
3.	To meet approved specification
4.	Standardization
5.	Addition
6.	Deletion
(7.)	Correction
8.	Other

Interchangeability Code **The circled item Indicates the interchangeability. If no marking, see the Notes in the bottom column.

	Parts		Unit Production	
A	Original	⇄	Early	Original or new parts may be used in either early or late production units. Use original parts until the supply is exhausted, then stock new parts.
	New		Late	
B	Original	→	Early	Original parts may be used in early production units only. New parts may be used in either or late production units. Use original parts where possible, then stock new parts.
	New	↗	Late	
(C)	Original	↗	Early	New parts are to be used in both early and late production units. Stock new parts only.
	New	→	Late	
D	Original	→	Early	Original parts must be used in early production units. New parts must be used in late production units only. Stock both original and new parts.
	New	→	Late	
E	Other			

Part Number Information

Model No.	Ref. No.	Original Part No.	New Part No.	Notes(*,**)	Part Name & Description	Q'ty
	MECHANISM					
	333	RFB90ZA	**RFB93ZA**	7, C	BELT	

Please file this parts change notice with your copy of the Service Manual for model No. **RX-CT950 (PP), Order No. MD8904018C1.**
RX-CT950 (PX), Order No. MD8907044A4.
RX-CT950 (GC), Order No. MD8907043C3.

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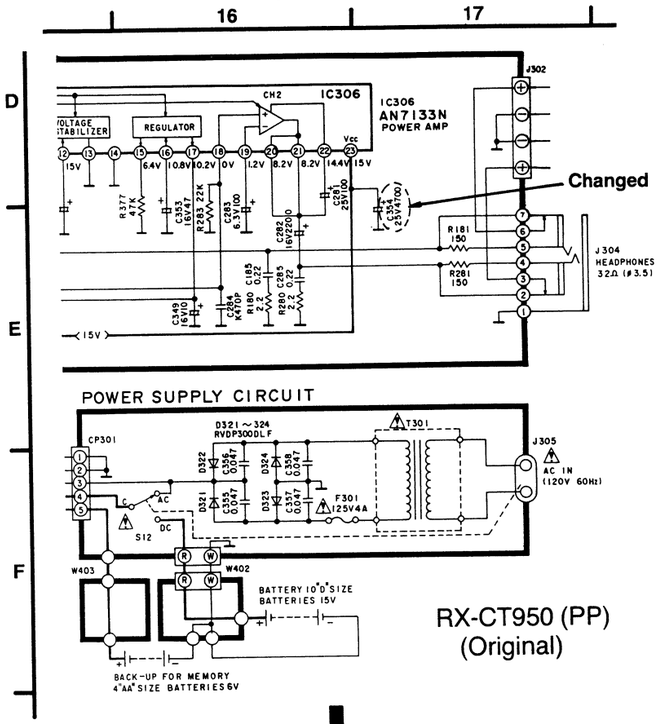
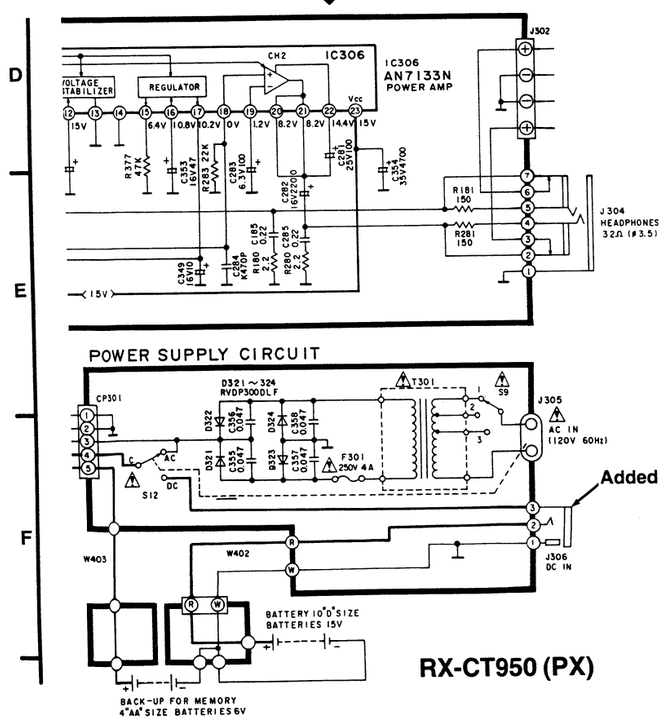
K941000310TM

●Main Circuit and Power Supply Circuit (Page 14)



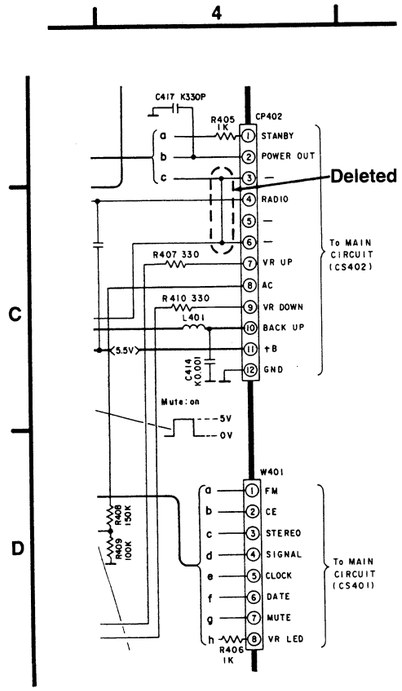
RX-CT950 (PP)
(Original)



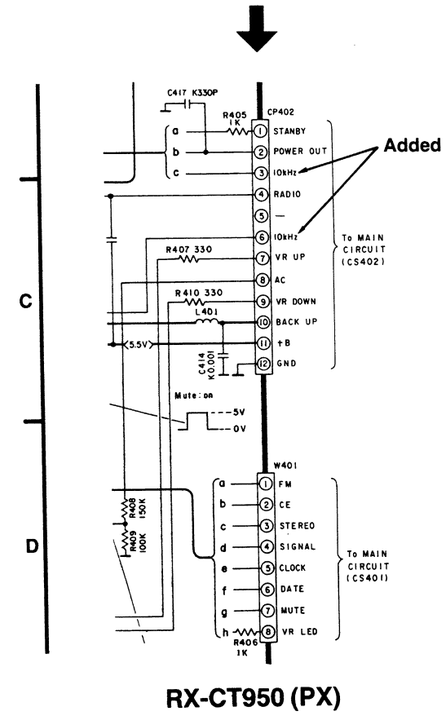
RX-CT950 (PX)

Notes:
S9: Voltage select switch in "110~127 V" position.
S12: AC/DC select switch in "AC" position.

●Operation Switch Circuit (Page 9)

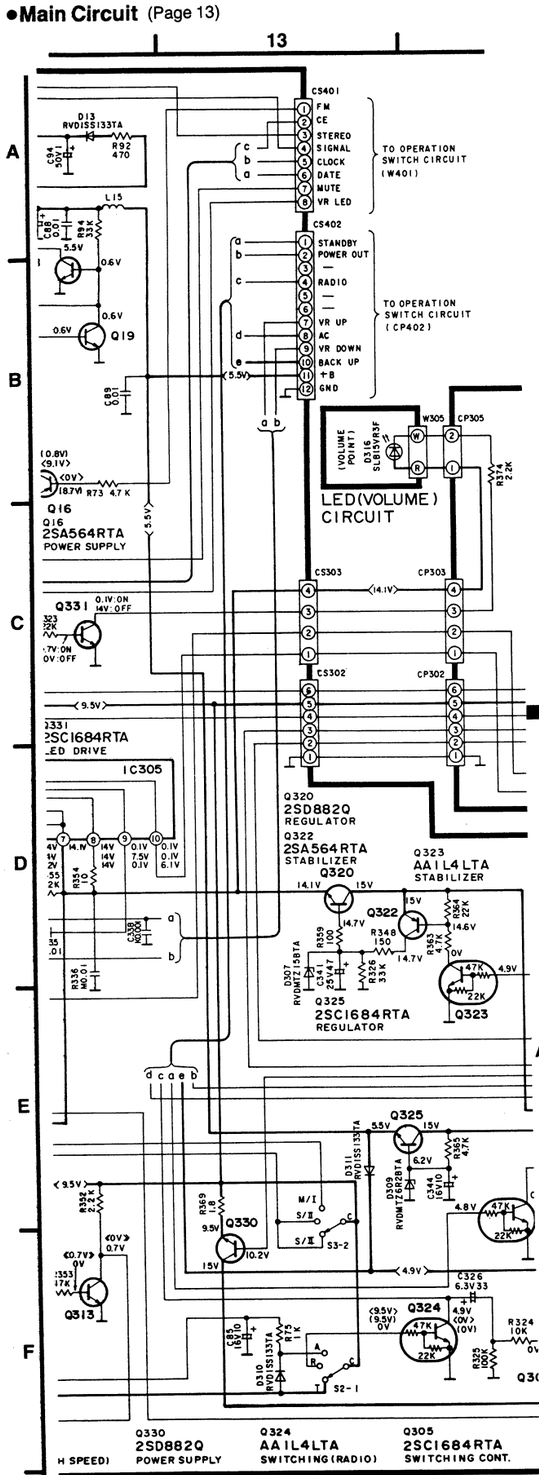


RX-CT950 (PP) (Original)

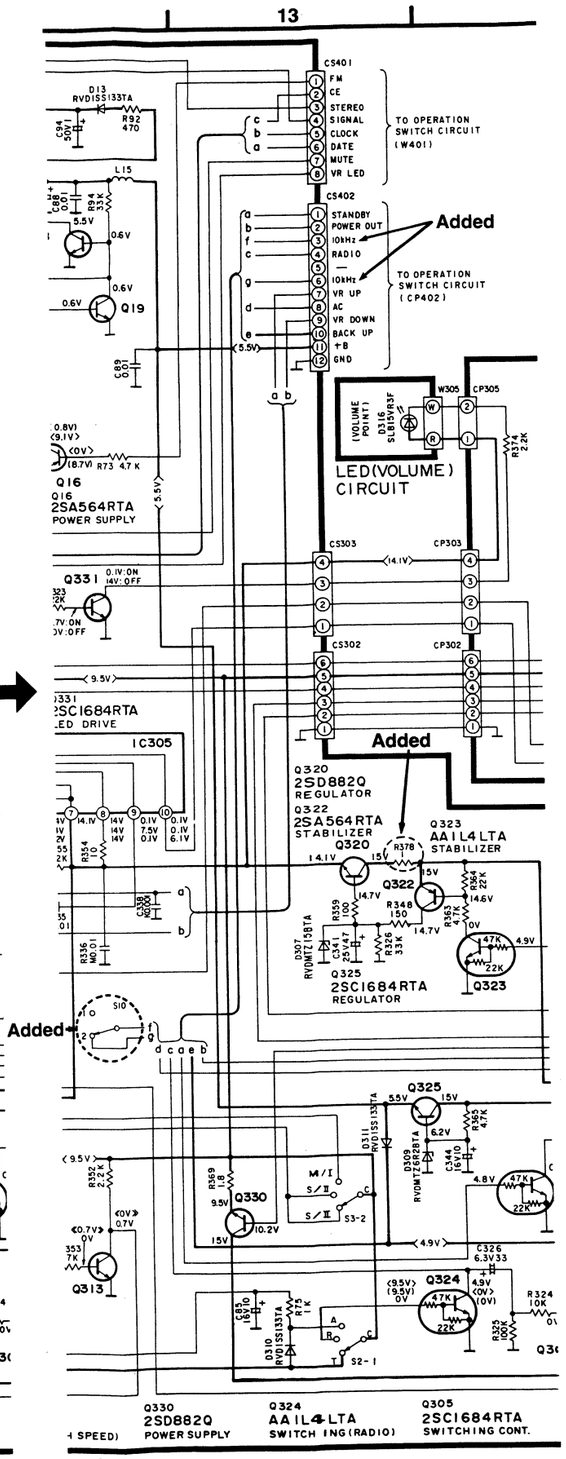


RX-CT950 (PX)

●Main Circuit (Page 13)



RX-CT950 (PP) (Original)

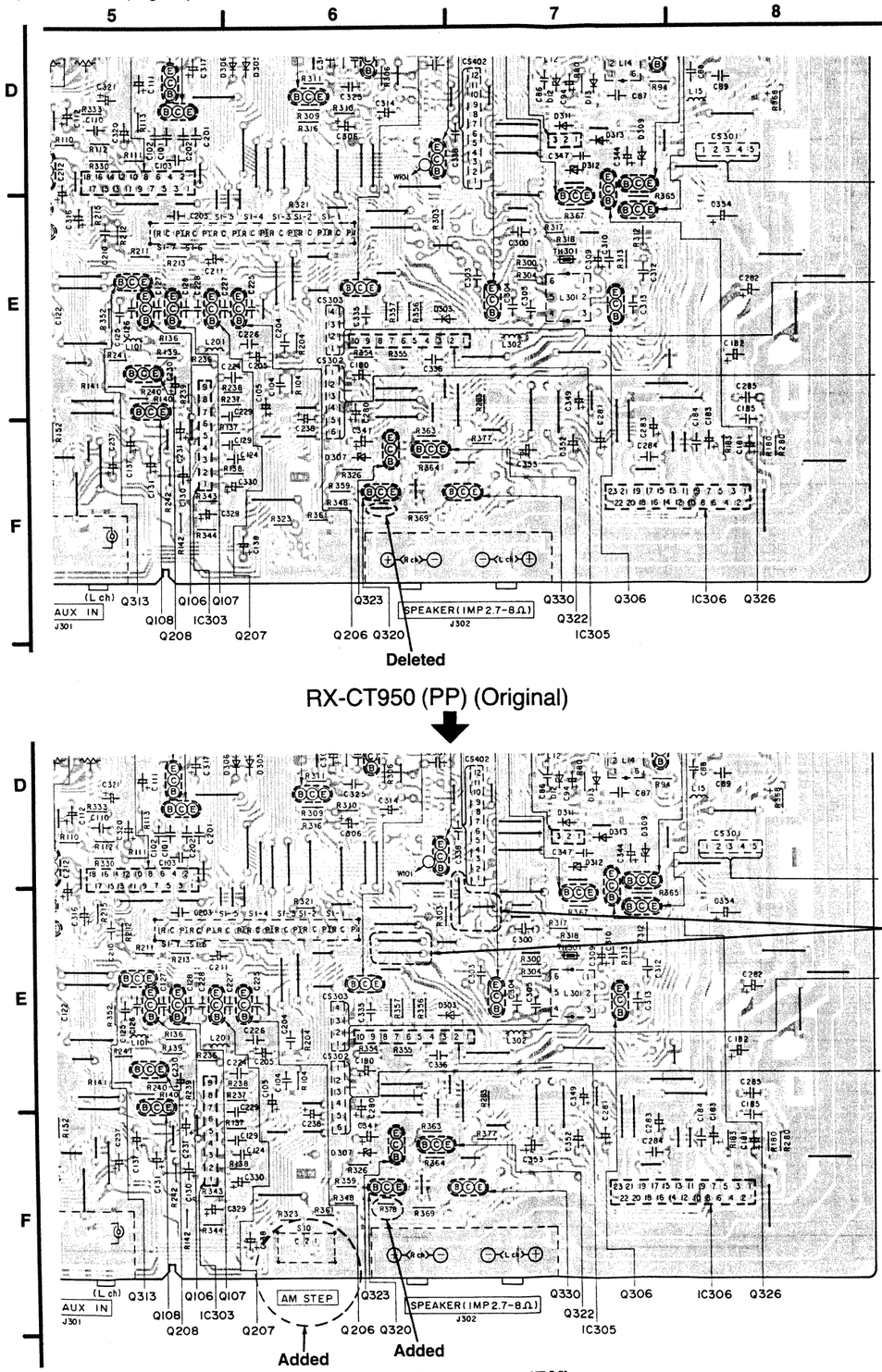


RX-CT950 (PX)

Note:
S10: AM frequency step selector in "10 kHz" position.
(1...9 kHz, 2...10 kHz)

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

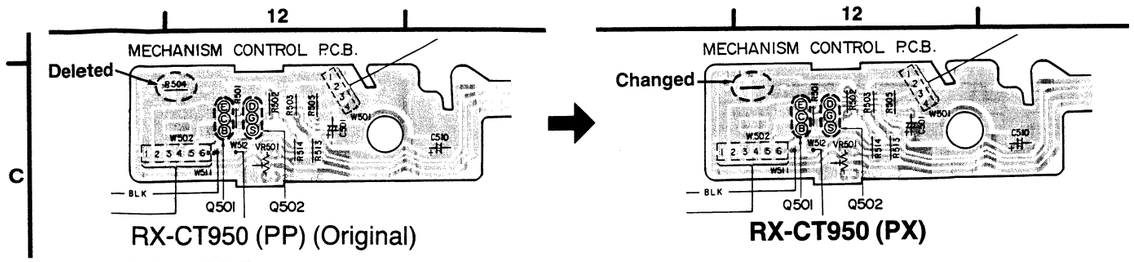
●Main P.C.B. (Page 16)



RX-CT950 (PP) (Original)

RX-CT950 (PX)

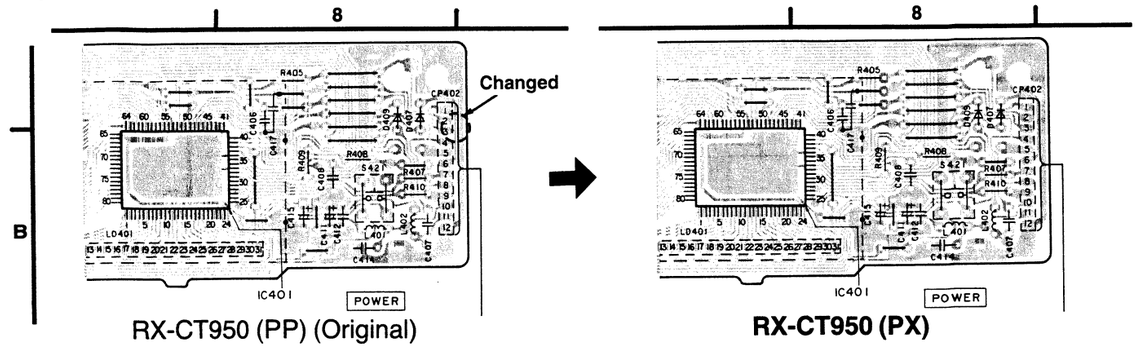
●Mechanism P.C.B. (Page 17)



RX-CT950 (PP) (Original)

RX-CT950 (PX)

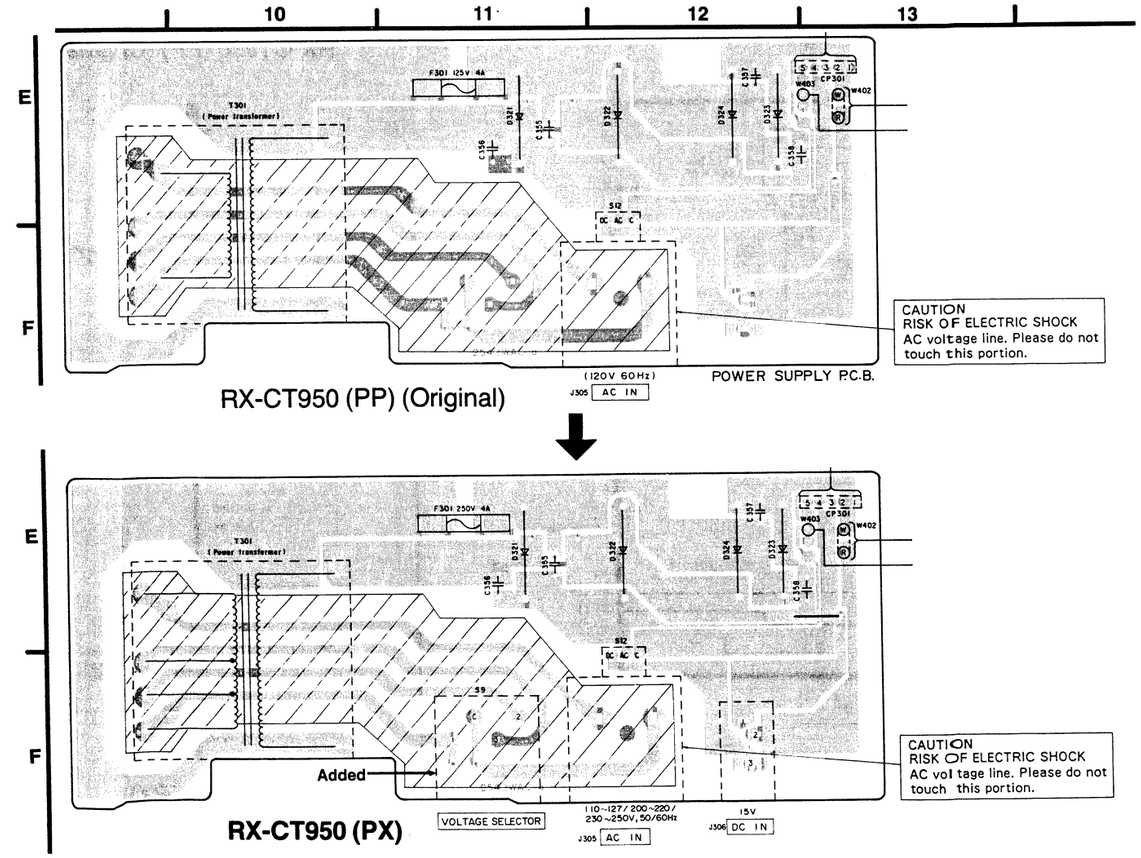
●Operation Switch P.C.B. (Page 16)



RX-CT950 (PP) (Original)

RX-CT950 (PX)

●Power Supply P.C.B. (Page 17)



RX-CT950 (PP) (Original)

RX-CT950 (PX)

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